ORDER NO.CHM0605031CE

Service Manual

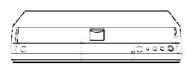
DVD Recorder

DMR-EH65EE / DMR-EH65GC / DMR-EH65GCS / DMR-EH65GN

VOI. 1

Colour

(S).....Silver Type



Notes: This models RAM/Digital P.C.B.

Module are - RFKNE:H65EE(EE)

- RFKNE:H65GC(GC)

- RFKNE:H65GCS(GCS)

- RFKNE:H65GN(GN).

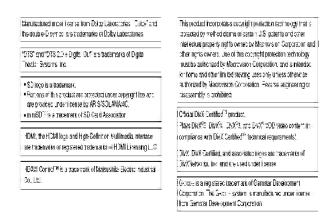
When replacing Main P.C.B. or EEPROM.
"UNFORMAT" indication is displayed and HDD must be formatted.

When replacing HDD, it is necessary to update the firmware.

Please prepare the update disc.

(After that, FORMAT is necessary)

SPECIFICATIONS



© 2006 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

▲ WARNING

This service information is designed for experienced recair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of contential dangers in attempting to service a product. Products powered by electricity should be service or repaired only by experienced professional technicians. Any attempt to service or repair the product or products death with in this service information by anyone else could result in serious injury or death.

1. Safety Precaution

1.1. General guidelines

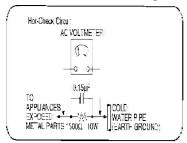
- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M and 5.2M.

When the exposed metal does not have a return path to the chassis, the reading must be .

Figure 1



1.1.2. Leakage current hot check / (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2. Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

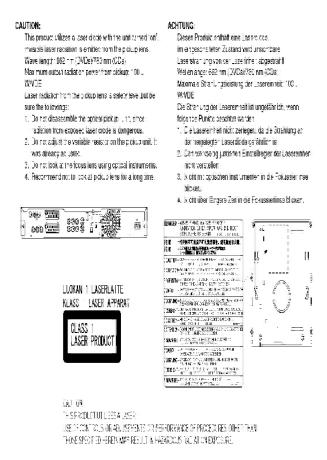
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a

- commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

 Caution
 - Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

2.2. Precaution of Laser Diode

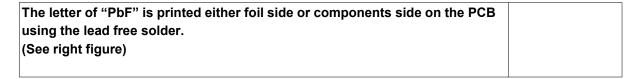


2.3. Service caution based on legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation. The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used



Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
 (Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.

- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.

RFKZ03D01K-----(0.3mm 100g Reel) RFKZ06D01K-----(0.6mm 100g Reel) RFKZ10D01K-----(1.0mm 100g Reel)

Note

3. Service Navigation

3.1. Service Information

This service manual contains rechnical information which will allow service personnel's to understand and service this mode.

3.2. Caution for DivX

^{*} Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

Please will always pass the customer filterning for 3. stomers Who Use the CivX Video on Demand content with the product and get it when you unavoice by exchange EEPROM or P.C.E. Including EEPROM (When the product is exchanged, it is the same.)

You must use ptint atached to service contribe POM or POIB, including EEPROM() or must use easy of print below as "<u>Warning</u> ion Customers who use the DIVA Video on-Demand content."

Information needed without fall for the obstomen for whom it is used continuing DivX Video-on-Demand Service to "Manual for the obstomen" is recorded.

Appendix

- " Parts that memorize users information are only $\pm 230 \text{M}_{\odot}$
- 1 The registration of Registration Code is cossible for half a year up to 3 recorders up to 10 recorders a year. Reclacement of EEPROM of P.O.B. including EEPROMapends one of this

| Fiegistration Code is merror zed in EEPEOM (RFK Fixodox)

Model without VHS: Main F 0 S.

Model with VHS, Digital /FIP C.B.; Power & DVD $\pm F/2$ C.B.)

Hexchange above P.C.3.or EEPPOM, new registration Code differ from oney ous Registration Code will be generated from scase inyour outsomer uses DivX Video-on-Demand service, height will no longer be able to play any content that height purchased under that same registration code.

Interefore your customer will need to obtain and register the new registration code

*Copy this page endicution the dotted line and give the lower half to your customer.

Warning for Customers who use the DivX Video-on-Demand content.

- 1. The registration code has been changed for the repair of the product of the product exchange.
- 2. Obtain and register a new registration code, otherwise you will no longer be able to play DWX Video on-Demand content.
- 3. Follow the procedure on the DMX Video-on-Demand web site to register at

http://www.divx.som

"If you do not use the DivX Video-on-Demand content, please ignore this warning.

4. Specifications

Power supply	EH6SEE GN	AC220-240 N, 50 Hz	· ·	Region number	E-KOLEE	Re	gion No	.5		
	FHEREX: CCS	A(220/240)(.5II ±/	60H		EH65GC	Re	gion No	2		
Ромен останировы	эршо . 34%	-			EH65GCS	Re	gion Ho	3		
Power ob is impoint	ACORCA 2 W Pr	ower Save Indoor			E-f6:GN	Re	gion No	À		
in Handy middle Recording system	John DAL Millar Recogning broad 1975-78 UNIT Without broad 1975-78 Beat broad 1975-78 Beat broad 1975-78 UNIT Without broad 1975-78 UNIT WITHOUT BROAD 1975-78 UNIT WITHOUT BROAD 1975-78 UNIT WITHOUT BROAD 1975-78 UNIT WITH			-lantile 19:0	DVD-FAM DVD Mides Ferbruing mines EVOR DVD View Briman, KFSCT SECT Only, PERSONNELL FLAVOR EVOR ELL BURST LINES DVD View Briman DVD Mides Ferbruing in med P					
Op sal pidsaci	System ein 1 k	ars. žižnegos immunis jū DVCs, zacizno vasveisog			#ULIDAD FO DVD-Vesc	CHS LSQVSI	i Lwdy	Sudr-		
Post dible assa	or didic case				COURSES COUNTY COLLACTORY (CD-CA, visco CD, SVCDICH KSEL Only), MPC, PEG. DAY tomated 45xs SVCDEHXSEL Crisi				.P1G.	
	Lightest for General Ver		Herording Water	Anorax XP: 16Mbps SP: Skites LF 25Mbps EP: 17Mbps* 2Mbps						
or General Verdicus A SPEED DVD Files sign of or General Verdicus A SPEED DVD R Paydoun of or General Verdicus A SPEED DVD R Paydoun of or This stories of the SPEED DVD R Paydoun of or This stories A SPEED DVD R			Recording time	Max Elecus X2: Aporex S2: Aporex LP : Aporex LP : Aporex Max Aporex X2: Aporex S2: Aporex LP : Aporex LP : Aporex LP : Aporex LP : Aporex	C 1 nour C2 nours C4 nours C6 nours C443 hou C55 hour C111 hou	-6 nour: us = i ri s us		ID (39 SI	ł modej	
	+1	2312	-	Approx.						
	ver 10 ver 11 Ver 12 ver 13		•	Recording Mode	- 73U D	4CB D oupe :	90-50 90-6W -54-6W -7633	PME-TO 8.FCE	47-F) 35G3	HAFE DISC 280GL
				XF High dicture quality Security mode	1 No.r - 2 n	ous III	neur -	Theur ∉mine	45 minis	
	9er11			SP Stanviero recording mode	2 lw.rs in				35 minis	
метаг D.)	Wor 1240 SPE 29083	±J!		LP Long recording mask EF Boralon:	4 hours 18 n 8 hours 12			7 hours 10 mins 10 hours	"Dinima	E2ho.e E3ho.e
Gapadiy Gu ek Stan tar		arrier Decording of EAC		sociare note (Sinule) EF Existin	8 hours 15		- 1	# mins	1	#3 leur
Feestang Feestang ONI	Water Water From the pow 1 UD starts at	dingto 14 lang 21-cin 3 or 3-voleo emirate) er eficiera recording en out i second aller list p or sequent aller grossing docesa.	DeD-RAN and ressing the poper					2. irins	le ^e	ľ
Approximate transfer	ring icubbing :m	.es (1/8), speed								
HCC:	SK Spinci CVC FAM	iaz Speec DVC P	4X Steed EMD R DL	-75 Street Tr	3X Speed; -R		2.403 #B	3.1	4% S 4F	
Rac Ruc movin film	117	occe Fragmised Spects of Table 35	Hunui ed Speci tmr E = 354 e	- me	Secured S	0001 ^R	185 185	Space + 2	Picture Toys	Specific

Compression	DVC (DVX), DC (CVX)	Ariemare:epiki	LH65±		
ether	DWX 6, m, 400 600 GWD IG obal Miclian Conpersa, undisord supported	s/si3m	OFF (PALCK)	MHF: CHIEF OUR FEB. JHF: CHIEF CHIEF	
	DVC (DVX), CD (EivX) Common flens		(SLSW-DKC)	(GATE: STEP 21 IZ-470MTZ	
	Rezimm number of the est. 300 Feograph blocks seride on this unit incompare monitoler. Rezimm number of the files. 200 Feographs CEX files parolise on this unit in the mumber of the files.		CCR (PALBGH) (SECAV-89)	WHE CHES-CHES UNE CHEST CHESS CALVECHEST CHESS CHUT-CHESS CHUT-CHESS CHEST-CHESS	
	DV2 and other type of tiles is 4000 DVD (VPS) (EHSSEE Only), CD (MFS)	1	Hong Kong (PALC)	UHF: CH 21 - CH 65	
	Former:		EH6330		
	SOPECE Issuet vir 2 (sector to reder ded to mars), utilist concentrate compression rate : 28kb servi 2000 pr. Contradite sampling rate 10km / 2009 pr. 748 pr. 744 pr. 44, flatik, 488 pr. This mini sind compatibe with 100 lags.		CC R (FAI-RGF) (SECAV SC:	WER CHES CHESS UNEX CHESS CHESS CATS:CHESS CHESS CHUM-CHUS CHUM-CHUS CHUM-CHUS CHUS CHUS CHUS CHUS CHUS CHUS CHUS	
	DWE GIPES) TO REFEE CITY: CERN PESS		EHGGGCS		
	Formal: SORGEC levels or 2 (except for extended to mode), Joi all Commoditie pixels :		OFF (PALCK)	VHR. OF RE-OH D12 UHR. OF 21 OH 22	
	neigeer 34 × 34 and 6144 × 403; pixels		(SECAVE) KIC (COAD): GE MANH / ECOVIE :		
	Sut Sampling 422 or 4230 This unit is not compaled with WOTION UPIGE. DEC OPSYMERASE Only, CONTROL DEC OPSYMERASE ONLY, CONTROL DECORPOSE - RELL CONY, CONTROL DESCRIPTION DURINGS OF CASHS.		CCR (PALHOH) (SECAV 36)	WHE CHEST-CHESS CATVEOUSCH CHSCS CHUT-CHUTC CHUT-CHUTC	
	800 Recognizable to dersiper displan this unit			CHS21 - CHS41	
	Trouchgine Front Macr. Vection number or VPS libes. 3000 Recognizable WPS flees per design like unit fill Vections number of UPES files; 3000 Recognizable JPES files per design files unit fil		Horg Korg (PAI-6) Cline (PAI-6)	UHR: 0-2: 0429 WHR: 0-1-0412 UHR: 0-18-0437	
	This unit is compatible with multi-session		GATE: G. 21-255		
	This unit is not competite e with people withing This land number of recognizable the including MPS UPEG.	•	EH653h		
	in X and other tiggers files \$4000		Australia GAL-Bi	M4R: 0-9-0412 UHR: 0-9-0439	
	BVGD (EH65EE Chy;		1.41-61	GATE: 0 48MHz-470V tz	
	Forum : FC69107 This unit is not compatible with "Chapt volt" available on the market including GVD EVCID and GVCD that do not conform to EG62107.		Net: Zustand (PAL DG)	WHE CHIT-CHIT! UIF: CHIT-CHIT! CATY: CHITANHY- COVE:	
Video		INF Convener Curbut	HOLDICARCE		
l dec system	FHEFFECONTS				
	SECURATION y impult/PAL colour signal, 625 ines, 50 fields NTSO colour signal, 525 lines, 60 fields				
	EH65GV				
	PAL copur agnol, 625 inasi 50 lie da NTSO seksur signol, 625 inasi, 60 fielda				
Ресолот у зух его	VPLG2 (i gorid 9.9F)				
Zvisc ira r	TABLE TO THE STATE OF THE STATE				

SC Chril Sidil	SD hencry out slott tect
SIJI Fichine (JPFG, TI	
Comparitie Vieda	Sumemony card Willti Media Card
	includes miniStyr-parts.
	A ministry accourse needs to be insence
i ormal	LAT12. FAT16
image file forme:	FC continuing DCF
	(Cesign rule for Carrent (15) system;
	usub sampling; 422 or 42 % TIFF (Uncompressed RGS crumby;
	DECE Compating
Huntper of pigge	34) 34) 6144 2 4366
Thavanig . ina	Agras (Sec Efficient, PEG)
SD Viceo (MPEG2)	
Comparitie Wedia	Stume many cert "With Made Card"
	Ind. des inniStracerts.
	(A miniSum adapter needs to be inserted)
Coces	N PEG2 (SD-Viceo Entertainment Video Protilia)
File lorma	SD Video formaticanto mina era on envir enster is possible from calid to
HDS: in DVD - TAM ice After vlideo Record no playback is cossible.	e. conversion and manufactin HDD or CMS-RAM disc, the
Audio system	
Recording system	Coby Digital 2c1 Linear PCM (XP mode)
Anacemon	Audio In: AV (AV2)21 Pint (AVSAV4)(Pint ack)
romand, mon	
rmant III.II	IMDIFFee: Standard: 1359ms,
mant III.II	implini ever: Standard: 13595ms, Full scale: 200mrs at 1845
	imo di ever kiranda de 1999ths, Full state: 20 vints ad ik Ho ino imostance: Vive the n 10K/2
-	mourt even Standard: 0.598ms, Ruf scalard Coversian (Reference, moeda neu Vereinen 1080) Audin Out 471,372 (24) nit Audie O. "Pincaes)
	mour Level Standard: 0.595ms, Fill stable 20 kmrs at 1845 nou i mosta des 1946 han 1080 Audin Colt AVIDAVZ (1915 m.) Audin Colt, Pfin Lassi Coltyn Levelt Standam (1,59 ms
	mourt even Standard: 0.598ms, Ruf scalard Coversian (Reference, moeda neu Vereinen 1080) Audin Out 471,372 (24) nit Audie O. "Pincaes)
Анасу Одри СУ/год	mo of seed Shandard: 0.59 ms. Fit is easts: 20 vints at 18-42 mot. Impaga con West from MC2 Audin Chill AVIDAY2 (19-6) in Amic (3). Philosopy Cutyot Exact Standard: 19-5 ms. Fit is east; 20 vints at 18-4
Anang Gupai CV Input	mo of seed Shandard: 0.59 ms. Fill scales 20 vines actività inco. Mossa cue Nove Fill scales 20 vines actività inco. Incomossa cue Nove Fill andre Co. Philosophia Audin Coll. 24 May 27 May 27 May 28
Analog Guipni CV Input	mon Friewer Standard (1997-18) Fri sonder 20 vom sich Heil Modern der Vorsichen (Modern der Heil Audim Ceit Anfrech (1971-1971) im Audim Groß (Pfersage) Cutym Lavelt Samdard (1971-1971) Fri sonder 20 vom sich Heil Cutym imperance Less (Heil 1980) IEEE 1894 Standard (1971-1971) IEEE 1894 Standard (1971-1971)
Ana og Gupun EV Pout Dig tas Andio Gusud	mon Fillerer Standard (1999) Fill stable 20 vons achtet mod impagalous Versichen Model Audin 2012/2019 Fini Amid (1) "Philadesi Culpui Exect Sandard (1991) Fill stable 2014/19 achtet Edit 1994 20 vins achtet Edit 1994 80 date: 40 mil do Cottos Tenning
Ana og Gupun EV Pout Dig tas Andio Gusud	moint wes Standard (1997). His seals (20 min similar) His seals (20 min similar) House has howed the motion. Principally Additional 2013/2019 Finit Amilia Co. Principally Additional Software (1997) His seals (20 min similar) His seals (2
Anarcy Culpui CV Pp.x Cignal Pudio Culoui HCM Outpui	monthewer Standard (1999) Ris produce 200 from Standard Modern Arthrythesian Amid (2007) Audin Carl Arthrythesian Amid (2007) Ris produce 200 from Amid (2007) Ris produce
Ана су Одраі	month ever Shade di 1997-e. Per shade 20 year an Rebi mon mosas de Voer her 1000. Audin Carl Art 1997 in Amic G. Pinnassi Cuput Lavel Sandar 1997 in Per shade 20 year an Rebi Cuput Lavel Sandar 1997 in Per shade 20 year an Rebi Cuput imperance Lase Bean 1990. IEEE 1894 Sandard Homoto Cercal Tammar Hold, John Organ 19 Sandard 1 Hold Ven 1981 (Sandard 1 Hold Ven 1981 (Sandard 1 Hold Ven 1981 (Sandard 1 Hold Ven 1981 (Sandard 1
Analog Polpin DV Polit Eighterendis Consul HEM Octool Einerskers Mass	mon Fillerer Standard (1997-18) Fill scales 20 ymrs ac 18-be mod, morata our Yosh Fan (Mod Audin Can Antar 20 ym in Amie G. Pinicaes) Cutyni Easek Sandard (1957-18) Fill scales 20 ym s ac 18-be Cutyni Easek Sandard (1957-18) FEEE 1894 Sandard (1957-18) F
Americ Cupin CV Pout City termino Cincui HTM Culpin Cincui sers Mass Cincui ring	mon Fillwer Standard (1997-18) Fillschaft 20 vinns am Neticum, monate der Voer her (1982) Audim Com Artha 27 (297-16) Amilia Co. (Phinaes) Cutput Exact Sandard (197-16) Fillschaft Sandard (197-16) F
Americ Picipial CP Produ English world Colorol Environment Environ	mon Fillwer Standard (1997-18) Fillschaft 20 vinns am Neticum, monate der Voer her (1982) Audim Com Artha 27 (297-16) Amilia Co. (Phinaes) Cutput Exact Sandard (197-16) Fillschaft Sandard (197-16) F
CV/DLI CV/DLI CG/SEPOSS CONSUL HEAD COUNTY CITY SEARCE HEAD COUNTY HEAD COUNTY CITY SEARCE CONSULTED	monthewer Standard 1994 or Million and Reformation (Not Per 1986). Main Cant Anton 2004 for mainte (1). Photosomore the Million Anton 2004 for mainte (1). Photosomore 1994 or Million and Reformation (1) for mainte (1). Photosomore 1994 for mainte (1) for million and Reformation (1) for million (1) fo
Americ Polpini CV PD I Eight Polific Comput HP24 Output Dimensional HP24 Output Dimensional Dimensional Common study	mon Fillwer Standard: 1999-18 Fillschließe Vernister 1980; Audin Standard: Standard 1999-18 Audin Standard: 1999-18 Audin Standard: 1999-18 Fillschließe Standard: 1999-18 EGE 1994-Standard: 1999-18 EGE 1994-Standard: 1999-1990 EGE 1994-1995-1990 EGE 1994-1995-1990 EGE 1994-1995-1990 EGE 1995-1990 EGE 199
Americ Polpini CV Polit City to June City to	mon Fillwer Standard: 1999-18 Fillschie 20 vons achte mod. monate der Vorsiter (1982) Audin Schie 20 vons achte Guguni Exakt Sandard (1999) Fillschie 20 vons achte Fillschie 20 vons ac

Notes: Mass and dimensions are approximate.

5. New Feature

5.1. About DivX

5.1.1. General

DivX is a new video compressing format that is applied MPEG4 technology to improve image quality and the compressibility, and it is developed by the DivXNetworks, Inc., Video file of high resolution and the high picture quality can be made though it is a high compressibility.

DivX codec is necessary for converting video to DivX file and .playback files made.

5.1.2. Operating Instructions about DivX Video-on-Demand Content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter unit's registration code and register unit. Visit www.divx.com/vod for more information.

Display unit's registration code.



We recommend that you make a note of this code for future reference.

- After playing DivX VOD content for first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play content on this unit, you will no longer be able to play any content that you purchased using previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times.

When you play this content, remaining number of plays is displayed. You cannot play this content when number of remaining plays is zero ("Rental Expired" is displayed.)

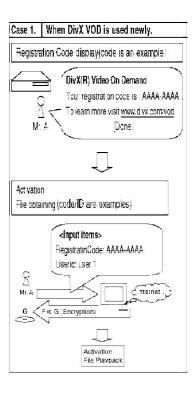
When playing this content

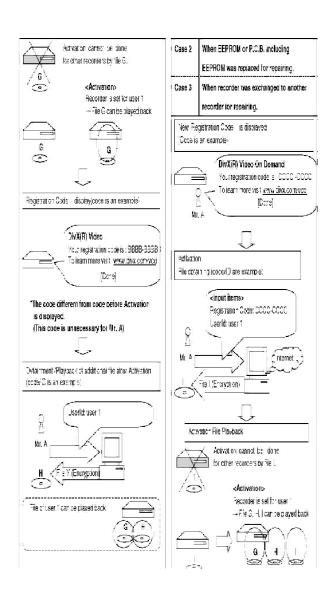
- Number of remaining plays is reduced by one if you press [POWER].
 - -you press (STOP)

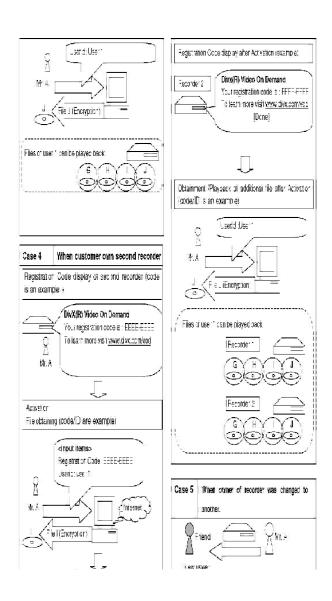
-you press [◀◀ SKIP]. |◀◀ SLOW/SEARCH] or [▶▶ SLOW/SEARCH] etc. and arrive at another content or start of content being played.

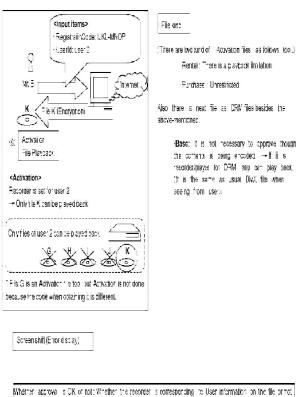
Typical Playback procedure of DivX VOD (Video On

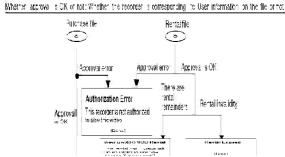
Delimina					
Case 1	When DivX VOD is used newly.				
Case 2	When EEPROM or P.C.B. including EEPROM was replaced for repairing.				
Case 3	When recorder was exchanged to another recorder for repairing.				
Case 4	When customer own second recorder				
Case 5	When owner of recorder was changed to another.				











5.1.3. About DivX DRM

Divx file includes file to which DRM(Digital Right Management) is applied and file not applied. This item is a content that relates only in treating file to which DRM is applied.

1. Registration Code display function

2. User's registration and approval function

3. Rental management function

1) Registration Code display function

Registration Code is alphanumeric character sequence 8bytes inputted as recorder information, in case a use purchases or rent a DivX DRM file in a network.

Registration code is a character sequence generated at random, and differs in each recorder.

Moreover, Registration code is updated by new user authentication ever if same recorder.

2) User's registration and approval function

- Only one user can register for one recorder. If user's registration is not done with the recorder, DivX file cannot be played back.
- User's registration is performed only when a DivX DRM file is first chosen by recorder
- DivX DRM file that can perform user's registration is only a file that is registered Registration Code and purchased or rented.
- User authentication is performed whenever DivX DRM file is played back. Error message is displayed when failing in user's registration and approval.

3) Rental management function

There are purchase file without registration of number of playback and rental files with registration of number of playback as Divx file. Number of playback of rental file is counted by the recorder. When rental file is played, remaining number of times that can be played back will be shown to users, recorder requests users to input yes or no.

Following specifications have been installed for the rental files in the purpose to clarify the count condition of number of times of playback.

- Conditions on counting number of times of play.
- 1. When a file was opened successfully. (At the time of playback start)
- 2. When you have done review operation from the start. (Skip to file head)
 - At this time, remaining number of times that can be played back and confirmation message [Do you play really?] are displayed.
 - When the playback point has been skipped to the top of title, number of playback is not counted if the top of title was not recognized.
 - Even if the power failure occurs after start of playback of rental file, number of times of playback counted at start of the playback is held as it is. (Though playback stops by power failure, the number of times of playback is not counted.)

When it has reached head of title, the playback is ended, and screen becomes DivX menu (There is no resume) and then cursor is located on title that has been played back.

Then if the same file was continuously played back, it begins to playback from the file head.

Note:

Above mentioned stored user information and number of times of playback are not erased by update of firmware or by initialization by test mode.

5.2. HDAVI Control (HDMI Link)

Linked operations by HDAVI Control (HDMI Link)

5.2.1. What is HDMI

HDMI is abbreviation of [High-Definition Multimedia Interface], and is digital interface standard for next generation TV corresponding to follows.

- 1. Non-compressing high quality digital image
- 2. Digital transmission of multi channel digital audio.
- 3. Two way communication of control signal of control straightening between equipments

Couble	Transmission metbod	Directionality	Transmission signal	Feature
		One-way	Digital image (nor-compriession high-definition television image)	Clock line in one system and data line in three systems can high-speed communicate high reliability because of balance communication that uses three respectively every one system.
HDMI Cable	Digital (:-4.455Gbps)	One-way	Digital Audicic (6ch/24 bit high sounc quality PGM of DVD audicio Bit stream of surrounci to 8ch of DVD video	high-speed data line in three systems can be used at same time it has ten of other digital cables times or more transmission ability. And can transmit high-definition television image of non-compression, 24 bit high sound quality PCM voice or multi-CH or DVD audio (to 5ch) and Bit stream signal of surround to 3ch of DVD video (5.1ch, 5.1ch, and 7.1ch, etc.) as a
		Interactive	Digital control signal (//c/vanced control between equipments	digital signal or no deterioration. In six power supply line and a interactive control signal in electric signal in electric signal, action and advanced control between equipments. Therefore it can correspond to making of AV equipment in the future highly a network.

Pin Name

No	Pin Name	10
1	TMDS Data2(+)	
2	TMDS Data2(shield)	
3	TMDS Data1(-	
4	TMDS Data 1(+)	3
5	TMDS Data1(shield)	
6	TMDS Data2(-	10
To	TMDS Data0(+)	
В	TMDS Data0(shield)	
Ģ	TMDS Data0(-	
10	TMDS Clock(+)	- 3
11	TMDS Clock(shield)	13
12	TMDS Clock(-)	(2)
13	CEC (Linked operation control)	
14	NC	
15	SCL	
16	SDA	
17	Ground	- 8
18	+5v Power	
19	Hot Plug Detect	

Pin layout of plug of HDMI cable seen from outside.

	1	3	ō	7	9	11	1	3 1	5 1	7	. ĝ
-	2	i	- 1	3 8	3	10	12	14	16	18	Shell

5.2.2. Link functions

Functions
(1) Automatic Input switch
(2) Link of Power

In case setting of [FUNCTIONS] \rightarrow [Setup] \rightarrow [TV Screen] [Functions of HDMI] [Control with HDMI] are on, all above equipments Link functions are effective.

5.2.3. Outline of Equipments Linked functions

(1) Automatic Input switch

At starting of playback/ GUI display by DIGA, it turns on power of VIErA, and it displays picture of DIGA onto screen of VIErA.

Starting of playback:

It includes automatic playback of DVD-Video and so on. And it includes picture of screen saver too. GUI display:

FUNCTIONS, DIRECT NAVIGATOR, TV PROGRAM, PROG/CHECK, Timer Recording, G-code, Initial setting, Playback setting, Play list, SD/DVD guide, Warning messages that user can select and so on.

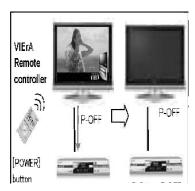
(2) Power Link

Power of DIGA is turned off linking to POWER OFF of VIErA.

- Power of DIGA is not turned on linking to POWER ON of VIErA.
- It is limited in following cases that DIGA links to POWER OFF of VIErA.
- 1. During EE display (While Timer recording is being executed/ Functions is being displayed are included.)
- 2. Case that DIGA is playing back (only North America/ Japan)

However except cases below.

- During EE display, but manual recording is being executing/ during EXT Link recording.
- During Tray is being opened.
- Case that DIGA is in status that power cannot turn off (during dubbing, during finalize).



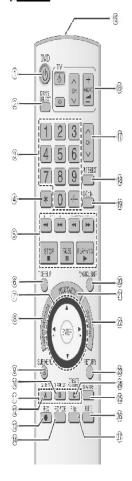
6. Location of Controls and Components

Followings are the Location of Controls and Components for DMR-EH65GC/GCS/GN as a sample. For other model, refer to each Operation Instructions.

Remote control

instructions for operations are generally described using the remote control.

e.g., Australia and N.Z.

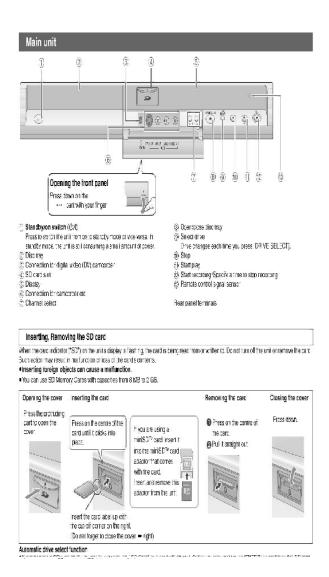


- (i) Turn the unit or
 (ii) Special or ve (HDD, CVC or SD)
 (iii) Special of very HDD, CVC or SD)
 (iii) Special of very HDD, CVC or SD)
 (iii) Special or Spec

- Signor or section moru

 Billions for satisfying between Viceo Pizure and Vidao Playlists manual turing settings
 Signor and turing settings
 Signor or section of Signor or section or sectio 6 Show on screan menu

- Ø Fexice Recording



7. Operation Instructions

7.1. Taking out the Disc from DVD-Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

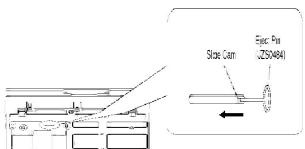
7.1.1. Forcible Disc Eject

7.1.1.1. When the power can be turned off.

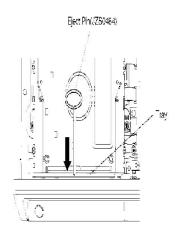
1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

7.1.1.2. When the power can not be turned off.

- 1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.
- 7.1.2. When the Forcible Disc Eject can not be done.
- 1. Turn off the power and pull out AC cord.
- 2. Remove the Top Case.
- 3. Put deck so that bottom can be seen.
- 4. Slide SLIDE CAM by Eject Pin (JZJ0484) or minus screw driver (small) in the direction of arrow to eject tray slightly.



5. Put deck upward, and push out Tray by Eject Pin (JZS0484) or minus screw driver (small).



8. Service Mode

8.1. Self-Diagnosis and Special Mode Setting

8.1.1. Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by "Self-Diagnosis Display" when any error has occurred.

U**, H** and F** are stored in memory and held.

You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode. Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL displa
U30	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	"*" is remote controlle code of the main unit. Display for 5 seconds
U59	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	"U59 is displayed for minutes.
U61	The unit is carrying out its recovery process.		No display	

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL displa
U88	The unit is carrying out its recovery process. (with a disc in the disc tray)	The unit detected an error while recording or playing with a disc in the disc tray. The unit is carrying out its recovery process. This process restores the unit to normal operation. The unit is not broken. Wait until the message disappears.	No display	
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.	No display	Displayed is left until [POWER] key is press
H19	Inoperative fan motor	When inoperative fan motor is detected after powered on, the power is turned off automatically. The event is saved in memory.	No display	No display
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	No display
F58	Drive hardware error	When drive unit error is detected, the event is saved in memory.	No display	No display
F34	Initialization error when main microprocessor is started up for program recording	When initialization error is detected after starting up main microprocessor for program recording, the power is turned off automatically. The event is saved in memory.	No display	No display
UNSUPF	៩ឧ ុន្ទupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty.	"This disc is incompatible."	Display for 5 seconds
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	"Cannot read. Please check the disc."	
HARD ERR	Drive error	The drive detected a hard error.	"DVD drive error."	Display for 5 seconds

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL displa
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / RAM drive.	No display	
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. "BYE" is displayed and power will be turned off. In case "Quick Start" of setup menu is ON, it is displayed in restoration operation for AC off.	No display	
UNFOR	பூர formatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment.		
IR ERR	IR communication error	[IR ERR] is displayed when communication between Timer microprocessor and IR microprocessor fails.	No display	
No REC	Recording is impossible	[No REC] is displayed when recording is impossible due to the defect, dirt or wound of media.	No display	
HDD ERROR	[HDD ERR] is displayed when start up of HDD was failed. (Except error of setting of Power on Stand-by)	a) When normal start up was failed. b) When start up at HDD boot was failed. c) When start up from state of P-OFF was / failed. d) When start up from state of HDD SLEEP / was failed. [HDD ERR] is displayed when above each start up of HDD was failed. *In case b), tray opens automatically and [HDDERR] is displayed until version up disc is inserted.	No display	

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL displa
	Power on Stand-by setting error	[HDD NG] is displayed when power on Stand-by setting of HDD is NG or when HDD which power on Stand-by is not set to is used. Please try to replace HDD with junine HDD as service parts.	No display	

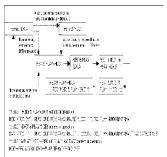
8.1.2. Special Modes Setting

	Item	FL display	Key operation
Mode name	Description		Front Key
TEST Mode	*All the main unit's parameters (include tuner) are initialized.		Press [STOP], [CH UP] and [OPEN/CLOSE] ke simultaneously for five seconds when power i off.
Rating password	The audiovisual level setting password is initialized to "Level 8".		Open the tray, and pre [REC] and [PLAY] simultaneously for 5 seconds.
Service Mode	Setting every kind of modes for servicing. *Details are described in "8.1.3. Service Mode at a glance".		When the power is off, press [CH UP], [OPEN CLOSE] and [REC] key simultaneously for 5 seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. *When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing Timer REC or EXT-LINK. *This command is not effective during "Child lock" is ON. While Demonstration Lock is being set, this Forced disc eject function is not accepted.	The display before execution leaves.	When the power is off, press [STOP] and [CH keys simultaneously for seconds.
Child lock/unlock	Set or release "Child Lock".		Press [ENTER] and [RETURN] by remote controller simultaneou until [X-HOLD] is displayed.

Item		FL display	Key operation
Mode name	Description		Front Key
NTSC/PAL system select	To switch PAL/NTSC alternately.	The display before execution leaves.	While the power is on (mode), press [STOP] a [OPEN/CLOSE] simultaneously for 5 seconds.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly. *When Timer REC is ON or EXT-LINK is ON, execute "Forced Power-off" after releasing Timer REC or EXT-LINK.	Display in P-off mode.	Press [Power] key over than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually. Caution: All programs in DVD-RAM disc will be deleted because Formatting is done once in Aging process.	Display following the then mode.	When the power is ON press [STOP], [POWEF and [OPEN/CLOSE] simultaneously for ove seconds and less than seconds. NOTE1:
			If Unit has not turned in Aging mode by operations shown above, execute TEST MODE once and execute operation shown above. (*All the main unit's parameters include turare initialized by TEST mode.) NOTE2:
			If the unit has hung-up because of pressing ke for over 10 seconds, or turn off the power, and execute this command *When releasing Aging mode, press [POWER]

ltem		FL display	Key operation
Mode name	Description		Front Key

Aging Contents (Example):



Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by "Main unit initialization" of service mode.	*When lock the tray. "LOCK" is displayed for 3 seconds.	When the power is on, press [STOP] and [POWER] keys simultaneously for 5 seconds.
		*When unlock the tray. "UNLOCK" is displayed for 3 seconds.	When the power is on, press [STOP] and [POWER] keys simultaneously for 5 seconds.
		*When press OPEN/ CLOSE key while the tray being locked.	Press [OPEN/CLOSE] I while the tray being locked.
		Display "LOCK" for 3 seconds.	
ATP re-execution	Re-execute ATP.	Display at ATP executing.	When the power is on (mode), press [CH UP] a [CH DOWN] simultaneously for 5 seconds.
Progressive initialization	The progressive setting is initialized to Interlace.	The display before execution leaves.	When the power is on (mode), press [STOP] a [PLAY] simultaneously 5 seconds.

8.1.3. Service Modes at a glance

Service mode setting: While the power is off, press REC, CH UP and OPEN / CLOSE simultaneously for five seconds.

	Item	FL display	Key operation
Mode name	Description		(Remote controller ke
Release Items	Item of Service Mode executing is cancelled.		Press [0] [0] or [Return service mode.
Error Code Display	Last Error Code of U/H/F held by Timer is displayed on FL. *Details are described in "8.1.1. Self-Diagnosis Functions".		Press [0] [1] in service mode
		If any error history dose not exist, [F00] is displayed.	
ROM Version Display	 Region code (displayed for 5 sec.) Main firm version (displayed for 5 sec.) Timer firm version (displayed for 5 sec.) Drive firm version (displayed for 5 sec.) ROM correction version (left displayed) 		Press [0] [2] in service mode
White Picture	White picture is output as	" * " are version displays. *Initial mode is "Interlace".	Press [1] [1] in service
Output	component Output from AV Decoder. *White picture		mode.
	(Saturation rate : 100%) *It is enable to switch Interlace/ Progressive by "I/P switch: [1] [4]"	Switch Interlace/ Progressive	Press [1] [4] in White Picture Output mode. *I/P are switched alternately.
Magenta Picture Output	Magenta picture is output with Component Output from AV Decoder. *Magenta picture	*Initial mode is "Interlace".	Press [1] [2] in service mode.
	(Saturation rate: 100%) *It is enable to switch Interlace/ Progressive by "I/P switch: [1] [4]"	Switch Interlace/ Progressive	Press [1] [4] in Magenta Picture Output mode. *I/P are switched alternately.

	ltem	FL display	Key operation
Mode name	Description		(Remote controller ke
RTSC Return in XP	AV1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC	Initial mode: EE2/ Interlace/ XP/ Audio 48kHz	Press [1] [3] in service mode.
	playback.	Switch Interlace/ Progressive	Press [1] [4] in RTSC Return XP mode. *I/P are switched alternately.
		Audio 44.1 kHz/ 48 kHz Switch	Press [2] [4] in RTSC Return XP mode. *48 kHz / 44.1 kHz are switched alternately.
I/P Switch	Switch Interlace and Progressive in EE mode. *Initial setting is "Interlace". *This command is effective during executing "White Picture Output", "Magenta Picture Output" and "RTSC Return in XP (A & V)" modes.	Initial mode is Interlace Switch Interlace/ Progressive	Press [1] [4] in I/P Swittmode. *I/P are switched alternately.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.		Press [2] [1] in service mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B		Press [2] [2] in service mode.
Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB)	Initial mode (Audio 48kHz)	Press [2] [3] in service mode.
	*Audio sound clock switching operation of DAC can be confirmed by sub command [2] [4].	Audio 44.1kHz/48kHz switching	Press [2] [4] in Audio Pattern Output mode. *48 kHz / 44.1 kHz are switched alternately.

ltem		FL display	Key operation	
Mode name	Description		(Remote controller ke	
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK If the HDD is defective	Press [3] [1] in service mode. *When canceling the checking mode while executing, do "forced power-off". Method: Press the "POWER" button more than 10 seconds.	
Laser Used Time Indiction	Check laser used time (hours) of drive.	(*****) is the used time display in hour. Laser used time of DVD / CD in Playback/ Recording mode is counted.	Press [4] [1] in service mode.	
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.		Press [9] [5] in service mode.	

	Item	FL display	Key operation
Mode name	Description		(Remote controller ke
RAM Drive Last Error	RAM Drive error code display. *For details about the drive error code, refer to the Service Manual for the specific RAM Drive.	1. Error Number is displayed for 5 seconds. 2. Time when the error has occurred is displayed for 5 seconds.	Press [4] [2] in service mode. When "INFO*****" is being displayed, past 1 error histories can be displayed by pressing [1] - [1] [9]
		DD: Day hh: Hour mm: Minute 3. Last Drive Error (1/2) is displayed for 5 seconds.	
		4. Last Drive Error (2/2) is displayed for 5 seconds.	
		5. Error occurring Disc type is displayed for 5 seconds.	
		6. Disc Maker ID is displayed for 5 seconds.	In case that the maker cannot be identified,
		7. Factor of Drive Error occurring is left displayed	display is black out.
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD RAM-Drive.		Press [9] [6] in service mode.

	ltem	FL display	Key operation
Mode name	Description		(Remote controller ke
Laser power confirmation	Drive state is judged based on difference between laser power value at shipping and present laser power value.		into RAM Drive in service mod (Other media are assumed to be correspondence.) 2. Press [4] [4].
Turn on all FL/	All segments of FL and all LEDs	If DVD-RAM disc in not inserted, [NO DISC] is displayed. If power value study was filed, [ERROR] is displayed. All segments are turned	Press [5] [1] in service
LEDs	are turned on.	on.	mode.
PB HIGH Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is High (approx. 11V DC).		Press [5] [2] in service mode.
PB MIDDLE Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is Middle (approx. 5.5V DC)		Press [5] [3] in service mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front key Switches.		Press [5] [4] in service mode.
		(1) Each time a key is pressed, segment turned on increases one by one.(2) Total umber of keys that have been pressed.	
Production Date Display	Display the date when the unit was produced.	·	Press [6] [1] in service mode.
		YY: Year MM: Month DD: Day	
Display the accumlated working time	Display the accumulated unit's working time.		Press [6] [4] in service mode.
		(Indicating unit: Second)	

	ltem	FL display	Key operation
Mode name	Description		(Remote controller ke
Display the Error History	Display the Error History stored on the unit.	Display reason of error for 5 seconds.	Press [6] [5] in service mode. Then press [0] [1] ~ [1] the past 19 error historare displayed.
		01: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 02: Defect of RAM Drive. 03: Defect of Disc. 04: Defect of Digital P.C.B. or Communication Error. 05: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 06: Defect of HDD. Display the time when the error has occurred for 5 seconds.	
Dalata the Ewey	Delete Evyev History information	DD: Day hh: Hour mm: Minute Accumulated working time till occuring of the error is left displayed. (Indicating unit: Second)	Droce [0] [7] in convice
Delete the Error History	Delete Error History information stored on the unit.		Press [9] [7] in service mode.

	Item	FL display	Key operation
Mode name	Description		(Remote controller ke
SD card WRITE check	Delete Error History information stored on the unit.	When the WRITE check is OK. When the WRITE check is NG.	Insert a SD card to SD card slot, and press [7] in service mode. *Insert SD card while tl power is off. *Check for [CARD SD] display on the FL displ and go on the procedu
		*Note: The image stored in the SD card will be erased.	
AV/////AV/1/PGP\ L	Set input to AV4 (V) and set	SD card will be erased.	Press [8] [0] in service
/O Setting	output to AV1 (RGB) for I/O checking		mode.
AV2(Y/C)/AV1(V) I/ O Setting	Set input to AV2 (Y/C) and set output to AV1 (V) for I/O checking		Press [8] [1] in service mode.
AV2(V)/AV1(Y/C) I/ O Setting	Set input to AV2 (V) and set output to AV1 (Y/C) for I/O checking		Press [8] [2] in service mode.
AV2(RGB)/AV1(V) I /O Setting	Set input to AV2 (RGB) and set output to AV1 (V) for I/O checking		Press [8] [3] in service mode.
P50(H) Output	Timer Microprocessor IC7501-76 output High signal for AV1-pin 10 passing through inverter (approx. 0V DC at AV1-pin 10).	When OK.	Press [8] [4] in service mode.
		When NG.	
P50(L) Output	Timer Microprocessor IC7501-76 output Low signal for AV1-pin 10 passing through inverter (approx. 4.4V DC at AV1-pin 10).	When OK.	Press [8] [5] in service mode.
		When NG.	

	ltem	FL display	Key operation	
Mode name	Description		(Remote controller k	
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.		Press [9] [1] in service mode *When releasing this	
		"*" is number of open/close cycle times.	mode, press the [POW] button of Remote Controller more than 1 seconds.	
Error code initialization	Initialization of the last error code held by timer (Write in F00)		Press [9] [8] in service mode.	
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.		Press [9] [9] in service mode.	
Finishing service mode	Release Service Mode.	Display in STOP (E-E) mode.	Press power button on front panel or Remote controller in service me	

9. Service Fixture & Tools

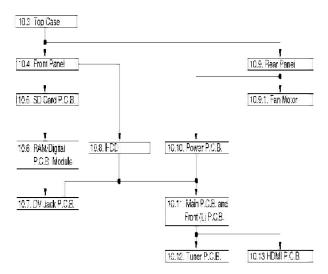
Part Number	Description	Compatibility
RFKZ0260	Extension Cable (MainP.C.B RAM/Digital P.C.B. Module/88 Pin)	Same as EH50 Series
RFKZ0216	Extension Cable (MainP.C.B Power P.C.B./ 23 Pin)	Same as E55 Series
RFKZ0366	Extension FFC (HDD - RAM/Digital P.C.B. Module/ 40 Pin)	New
RFKZ0168	Extension Cable (Power P.C.B Fan Motor/ 3 Pin)	Same as E50/ E55 Series
RFKZ0339	Extension Cable (MainP.C.B HDD / 4 Pin)	New
JZS0484	Eject Pin	Same as E50 Series
RFKZ03D01K	Lead Free Solder (0.3mm/100g Reel)	New
RFKZ06D01K	Lead Free Solder (0.6mm/100g Reel)	New
RFKZ10D01K	Lead Free Solder (1.0mm/100g Reel))	New
RFKZ0316	Solder Remover (Lead free 10W temperature Solder/180g)	New
RFKZ0328	Flux	New
RFKZ0329	Bottle of Flux	New

10. Disassembly and Assembly Instructions

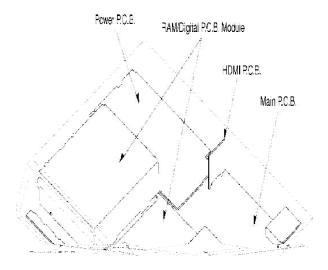
10.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.

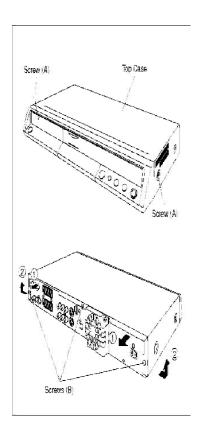


10.2. P.C.B. Positions



10.3. Top Case

- 1. Remove 2 screws (A) and 3 screws (B).
- 2. Slide Top Case rearward and open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.



10.4. Front Panel

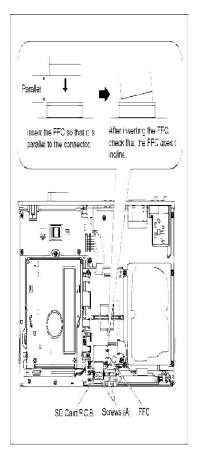
1. Unlock 6 tabs in (A) - (F) turn.

Pull with the front panel in the direction of your side.



10.5. SD Card P.C.B.

1. Remove 1 FFC and 2 screws (A) to remove SD Card P.C.B..



10.6. RAM/Digital P.C.B. Module

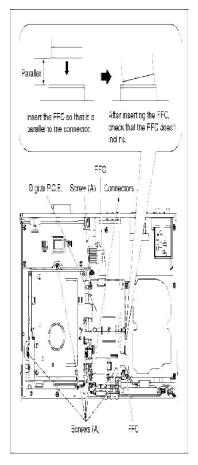
Caution:
Pairing of RAM Drive and Digital P.C.B. as "RAM"
Digital P.C.B. Module" haive to be replaced together.
If the pairing is changed, HAM Drive unit has to be
re-aligned. Because the alignment data for RAM Drive
Unit is stored in Digital P.C.B..

Note:

After replacing RAM/Digital P.C.B. Module, "TM AV1" is displayed on FL.
Once power off, and start-up again.

1. Remove 2 FFCs and 6 Screws (A).

2. Lift up Digital P.C.B. slightly so to disconnect Connectors to remove Digital P.C.B.

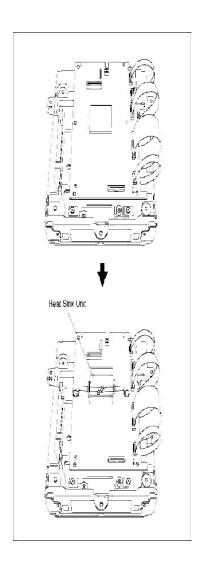


3. Put Digital P.C.B. on RAM Drive and remove RAM/Digital P.C.B. Module.



Note:

RAM/Digital P.C.B. Module as service part has no heat sink unit. Before returning to customer, heat sink unit should be installed on Digital P.C.B..



10.7. DV Jack P.C.B.

1. Remove 1 Screw (A) to remove DV Jack P.C.B.

10.8. HDD

Caution:

Writing the main firmware to the unit is necessary after replacing the HDD.

Prepare the latest firmware updating disc.

The main firmware is recorded in the HDE, but the replacement HDD has no data (and needs to be formatted).

Writing Procedure of Main Firm:

Caution:

- 1) Writing of Main Firm needs 3, 4 minutes.
- (2) Never out the power of CVD Recorder until writing in Firmware ends. (5) Initial settings and contents of reservation will not change if writing is no mally completed
- . Prepare latest firmware updating disc.
- 2. Replace HDD.
- 3. Turn on power of DVD Recorder
- 4. After [PLEASE WAIT] is displayed on FL., [HDD ERR] is displayed on FL.,
- 5. Tray opens automatically
- 6. Insert updating disc for Firmware and press CPEN/CLOSE key. (fila wrong disc was inserted, [NG DISK] [NO FVU] is displayed on FL.)]
- 7. (LOAD) (LD EVU) 'V FIRM) are displayed on FL alternately.
- 8. [MAIN] : (UPD OK) blink alternately and Tray opens.
- Take out ciss (Writing was finished).
- 9. Press Power button to turn off power.
- 10. Press Power button to turn on power. 11. HELLO]—[SELF CHECK] are displayed on Fig.
- 12. UNFORMATI is disclayed on FL.
- 13. After [UNFOFMAT] was displayed, message to request FORMAT I
- is displayed on TV screen.

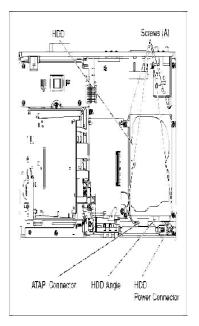
 14. Saleot Yes, and press [ENTER] key to format HDC. (After FORMAT, program in HDD will be lost, but Main firm will not be pst.)

"Write of the main firm" is completed above.

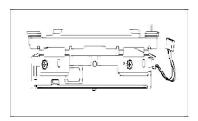
- Drive firm is not updated by above operation. If you wish update
- Orice firm, please prepare the disc for latest firmware update, and write it again.

 If the version of the firm you have prepared was same as or later than that has already been written in deck, "UNSUPPORT" is
- displayed on FL in a usual updating of firmware, writing is not performed when the timer reservation stancely was not released.

- 1. Remove ATAPI Connector and HDD Power Connector.
- 2. Remove 4 Screws (A) to remove HDD Angle with HDD.



3. Put HDD with HDD Angle up and down inversely so as not to give a shock to HDD.



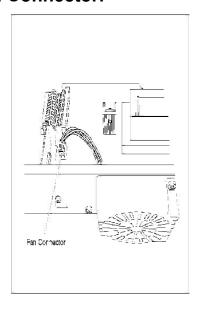
4. Remove 4 screws (A) remove HDD.





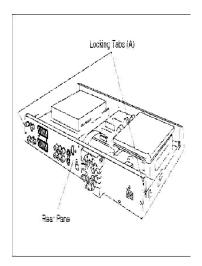
10.9. Rear Panel

1. Disconnect Fan Connector.



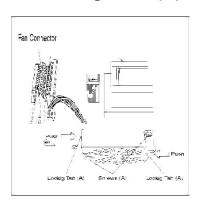
2. Remove 7 Screws (A) and 2 Screws (B).

3. Unlock 2 Locking Tabs (A) to remove Rear Panel.



10.9.1. Fan Motor

- 1. Disconnect Fan Connector and remove 2 Screws (A).
- 2. Push and unlock 2 Locking Tabs (A) to remove Fan Motor.

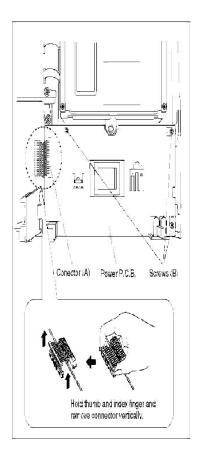


10.10. Power P.C.B.

1. Remove 1 Screw (A).

2. Remove 3 Screws (B) and disconnect Connector (A) to remove Power

P.C.B..



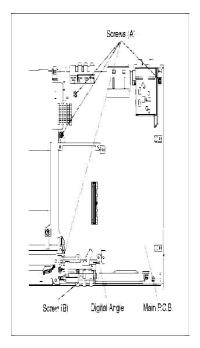
10.11. Main P.C.B. and Front (L) P.C.B.

When replacing Main P.C.S. or HEPROM.
"UNFORMAT" indication is displayed and HDD must be for narted.

After that, programme in the HDD will be lost.

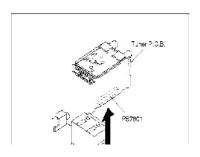
1. Remove 1 Screw (A).

- 2. Remove 4 Screws (A) and 1 Screw (B).
- 3. Remove Digital Angle to remove Main P.C.B. and Front (L) P.C.B..



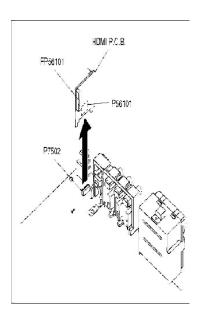
10.12. Tuner P.C.B.

1. Pull out the Tuner P.C.B. in the direction of the arrow.



10.13. HDMI P.C.B.

1. Pull out the HDMI P.C.B. in the direction of the arrow.



11. Measurements and Adjustments

11.1. Service Positions

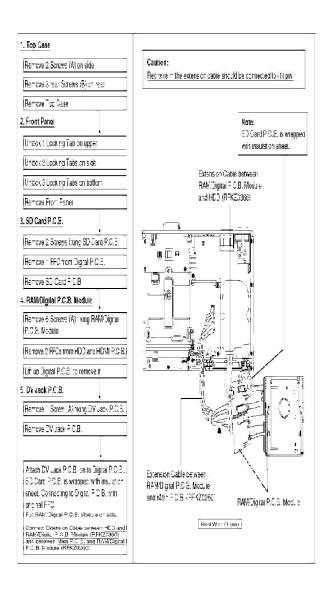
Note:

For description of the disassembling procedure, see the section 10.

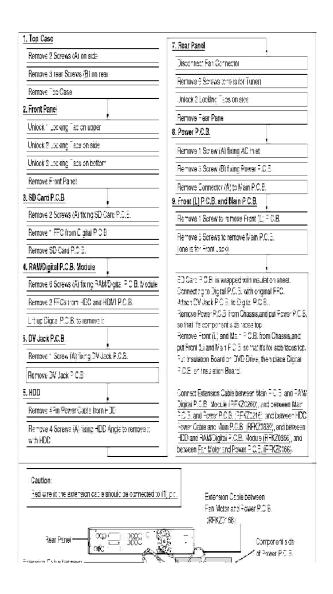
11.1.1. Checking and Repairing of Power P.C.B.



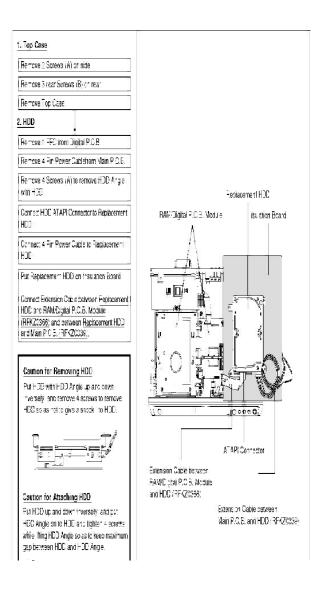
11.1.2. Checking and Repairing of RAM / Digital P.C.B. Module



11.1.3. Checking and Repairing of Main P.C.B.



11.1.4. Checking and Repairing of HDD



11.2. Caution for Replacing Parts

11.2.1. Items that should be done after replacing parts

terrs that Should I se done i Recisoing Paris	Reset (07501 (*Notei)	Colain and register a new registration code.(*Note2)	Main Film upcate(*Note3)	HDO Format
Mar PCB	V.	v	- 1	V
107501 (Timer IQ)	٧	- 1	-	_
107404 (EEPRON)	-	v ·		V
HCC		- 7	V	Ŋ.
Nate1: Reselling Nethod	1			
Reset oblact	Condition	of power 8	hor: Termina	
107501 (Timer IIC)	POWER ON	IC7502-4 (RESET)	ii and GNE	

'Note2:

Please will always pass the outstoner "<u>Manning for Customers</u>" with Use the DirX Wideo-or-Demand content" with the product and get owner you unavoicably exchange EEPROM or P.O.B. Including EEPROM (When the product is exchanged into the same.

You must use print attached to service part EEPPOV or P.C.B. including EEPPOVI or must use copy of print below as "<u>Warning to Sources</u> who use the DWX Video on-Demand content."

Information needs without fall for the distance for whom it is used continuing DivX Viced-an Demand Service to "Wanual for the distance" is reprinted

Appendix:

* Parts that memorize user's information are only EEPROM.

The registration of Rieg stration Gode is possible for half a year up to 5 recorders up to 10 recorders a year.

Replacement of EEPROM or Pi0.B including EEPROM spends one of this.

Registration Code, amemorized in EEPROM (RFKFxxxxxx)

Model without VHS: Main P.C.S.

Wodel with VHS-Digital VEPIC But Power & DVD VEVE C.B. (

If exchange above P.C.B. or EEPROM inew registration Code differ from previous Registration Code will be generated in this case if your outsomer uses DivX Video-on-Demand service, helder will no origin be sole to play any content test helder by chased under that same registration code.

Therefore your customer will need to obtain and register the new registration code.

Note3:

Please prepare latest firmware updating disc.

* Main Firm is being recorded in HDD, but new HDD has no data.

Writing Procedure of Main Firm:

<<Caution>>

- (1) Writing of Main Firm needs 3, 4 minutes.
- (2) Never cut the power of DVD Recorder until writing in Firmware ends.
- (3) Initial settings and contents of reservation will not change if writing is normally completed.
- 1. Prepare updating disc for firm ware.
- 2. Replace HDD.

- 3. Turn on power of DVD Recorder.
- 4. After [PLEASE WAIT] is displayed on FL., [HDD ERR] is displayed on FL.
- 5. Tray opens automatically.
- 6. Insert updating disc for Firmware and press OPEN/CLOSE key. (If a wrong disc was inserted, [NG DISK] [NO FVU] is displayed on FL.)
- 7. [LOAD] → [LD FVU] ← → [M_FIRM] are displayed on FL alternately.
- 8. [MAIN] ← → [UPD OK] blink alternately and Tray opens. Take out disc (Writing was finished).
- 9. Press Power button to turn off power.
- 10. Press Power button to turn on power.
- 11. [HELLO] → [SELF CHECK] are displayed on FL.
- 12. [UNFORMAT] is displayed on FL.
- 13. After [UNFORMAT] was displayed, message to request FORMAT is displayed on TV screen.
- 14. Select [Yes] and press [ENTER] key to format HDD.

(After FORMAT, program in HDD will be lost, but Main firm will not be lost.

11.2.2. Notice after replacing RAM/Digital P.C.B. Module

After replacing RAM/Digital P.C.B. Module, "TM AV1" is displayed on FL. Once power off, and start-up again.

11.3. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

[&]quot;Write of the main farm" is completed above.

^{*} Drive firm is not updated by above operation. If you wish update Drive firm, please prepare the disc for latest firmware update, and write it again.

^{*} If the version of the firm you have prepared was same as or later than that has already been written in deck, 'UNSUPPORT' is displayed on FL.

^{*} In a usual updating of firmware, writing is not performed when the timer reservation standby was not released.

No.	Procedure	Item to Check
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.
2	Insert RAM disc.	The Panasonic RAM disc should be recognized.
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the picture, sound or operation.
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the picture, sound or operation.
		*Panasonic DVD-RAM disc should be used wher recording and playback.
5	Model with the HDD: Perform auto recording and playback for one minute using the HDD.	No abnormality should be seen in the picture, sound or operation.
6	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the picture, sound or operation.
7	Models with SD Card Slot or DV Input Jack: In case of that the trouble is caused by SD card and/ or DV terminal.	Models with SD Card or DV Input Jack; 1) SD Card: Check to be able to display and copy the picture. 2) DV terminal: Check to be able to record from
8	After checking and making repairs, upgrade the firmware to the latest version.	DVC. Make sure that [FIRM_SUCCESS] appears in the FL displays.
		*[UNSUPPORT] display means the unit is already updated to newest same version. Then version is not necessary.
9	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [CLR] appears in the FL display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents	Chec
	Block noise			Distorted sound	
	Crosscut noise			Noise (static, background noise, etc.)	
Picture	Dot noise		Sound	The sound level is too low.	
	Picture disruption			The sound level is too high.	
	Not bright enough			The sound level changes.	
	Too bright				
	Flickering color				
	Color fading				

12. Block Diagram

- 12.1. Power Supply Block Diagram
- 12.2. Analog Video Block Diagram
- 12.3. Analog Audio Block Diagram

- 12.4. Analog Timer Block Diagram
- 12.5. HDMI Block Diagram

13. Schematic Diagram

- 13.1. Interconnection Schematic Diagram
- 13.2. Power Supply Schematic Diagram
- 13.3. Main Net (1/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)
- 13.4. Main Net (2/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)
- 13.5. Main Net (3/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)
- 13.6. Main Net (4/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)
- 13.7. A/V I/O (1/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)
- 13.8. A/V I/O (2/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)
- 13.9. A/V I/O (3/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)
- 13.10. A/V I/O (4/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)
- 13.11. Nicam Decoder Section (Main P.C.B. (3/4)) Schematic Diagram (DE)
- 13.12. Timer (1/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)
- 13.13. Timer (2/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)
- 13.14. Timer (3/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)
- 13.15. Timer (4/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)
- 13.16. HDMI Schematic Diagram
- 13.17. Tuner Pack Schematic Diagram
- 13.18. SD Card Schematic Diagram
- 13.19. Front (L) Schematic Diagram
- 13.20. DV Jack Schematic Diagram

14. Printed Circuit Board

- 14.1. Power P.C.B.
- 14.2. Main P.C.B.

- 14.2.1. Main P.C.B. (1/4 Section)
- 14.2.2. Main P.C.B. (2/4 Section)
- 14.2.3. Main P.C.B. (3/4 Section)
- 14.2.4. Main P.C.B. (4/4 Section)
- 14.2.5. Main P.C.B. Address Information
- 14.3. HDMI P.C.B.
- 14.4. Tuner P.C.B. and DV Jack P.C.B.
- 14.5. SD Card P.C.B. and Front (L) P.C.B.

15. Appendix for Schematic Diagram

15.1. Voltage and Waveform Chart

Note)

Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

- 15.1.1. Power P.C.B.
- 15.1.2. Main P.C.B.
- 15.1.3. HDMI P.C.B.
- 15.1.4. Tuner P.C.B.
- 15.1.5. P59001 Connector
- 15.1.6. Waveform Chart
- 15.1.7. Abbreviations

INIT	TAL/LOGO	ABBREVIATIONS			
Α	A0~UP	ADDRESS			
	ACLK	AUDIO CLOCK			
	AD0~UP	ADDRESS BUS			
	ADATA	AUDIO PES PACKET DATA			
	ALE	ADDRESS LATCH ENABLE			
	AMUTE	AUDIO MUTE			
	AREQ	AUDIO PES PACKET REQUEST			
	ARF	AUDIO RF			
	ASI	SERVO AMP INVERTED INPUT			
	ASO	SERVO AMP OUTPUT			
	ASYNC	AUDIO WORD DISTINCTION			
		SYNC			
В	вск	BIT CLOCK (PCM)			
	BCKIN	BIT CLOCK INPUT			
	BDO	BLACK DROP OUT			
	BLKCK	SUB CODE BLOCK CLOCK			
	воттом	CAP. FOR BOTTOM HOLD			
	BYP	BYPATH			
	BYTCK	BYTE CLOCK			
С	CAV	CONSTANT ANGULAR			
	CBDO	VELOCITY			
	CD	CAP. BLACK DROP OUT			
	CDSCK	COMPACT DISC			
	CDSRDATA	CD SERIAL DATA CLOCK			
		CD SERIAL DATA	INIT	TAL/LOGO	ABBREVIATIONS
	CDRF	CD RF (EFM) SIGNAL	D	DACCK	D/A CONVERTER CLOCK
	CDV	COMPACT DISC-VIDEO		DEEMP	DEEMPHASIS BIT ON/OFF
	CHNDATA	CHANNEL DATA		DEMPH	DEEMPHASIS SWITCHING
	CKSL	SYSTEM CLOCK SELECT		DIG0~UP	FL DIGIT OUTPUT
	CLV	CONSTANT LINEAR VELOCITY		DIN	DATA INPUT
	COFTR	CAP. OFF TRACK		DMSRCK	DM SERIAL DATA READ CLOCK
	СРА	CPU ADDRESS		DMUTE	
	CPCS	CPU CHIP SELECT		DO	DIGITAL MUTE CONTROL
	CPDT	CPU DATA		DOUT0~UP	DROP OUT
	CPUADR	CPU ADDRESS LATCH			DATA OUTPUT
	CPUADT	CPU ADDRESS DATA BUS		DRF	DATA SLICE RF (BIAS)
	CPUIRQ	CPU INTERRUPT REQUEST		DRPOUT	DROP OUT SIGNAL
	CPRD	CPU READ ENABLE		DREQ	DATA REQUEST
	CPWR	CPU WRITE ENABLE		DRESP	DATA RESPONSE
	CS	CHIP SELECT		DSC	DIGITAL SERVO CONTROLLER
	CSYNCIN	COMPOSITE SYNC OUT		DSLF	DATA SLICE LOOP FILTER
	CSYNCOUT	COMPOSITE SYNC OUT		DVD	DIGITAL VIDEO DISC

INIT	TIAL/LOGO	ABBREVIATIONS			
E	EC	ERROR TORQUE CONTROL			
_	ECR	ERROR TORQUE CONTROL			
		REFERENCE			
	ENCSEL	ENCODER SELECT			
	ETMCLK	EXTERNAL M CLOCK (81MHz/			
	ETSCLK	40.5MHz)			
	LIGGLIK	EXTERNAL S CLOCK (54MHz)			
F	FBAL	FOCUS BALANCE			
	FCLK	FRAME CLOCK			
	FE	FOCUS ERROR			
	FFI	FOCUS ERROR AMP INVERTED			
	FEO	INPUT			
	FG	FOCUS ERROR AMP OUTPUT			
	FSC	FREQUENCY GENERATOR			
	FSCK	FREQUENCY SUB CARRIER			
		FS (384 OVER SAMPLING)			
		CLOCK			
G	GND	COMMON GROUNDING			
		(EARTH)			
Н	HA0~UP	HOST ADDRESS			
	HD0~UP	HOST DATA			
	HINT	HOST INTERRUPT			
	HRXW	HOST READ/WRITE			
I	IECOUT	IEC958 FORMAT DATA OUTPUT			
	IPFRAG				
	IREF	INTERPOLATION FLAG			
	ISEL	I (CURRENT) REFERENCE			4000000000
		INTERFACE MODE SELECT		TIAL/LOGO	ABBREVIATIONS
L	LDON	LASER DIODE CONTROL	0	ODC	OPTICAL DISC CONTROLLER
	LPC	LASER POWER CONTROL		OFTR	OFF TRACKING
	LRCK	L CH/R CH DISTINCTION		OSCI	OSCILLATOR INPUT
		CLOCK		osco	OSCILLATOR OUTPUT
M	MA0~UP	MEMORY ADDRESS	_	OSD	ON SCREEN DISPLAY
	MCK	MEMORY CLOCK	Р	P1~UP	PORT
	MCKI	MEMORY CLOCK INPUT		PCD	CD TRACKING PHASE
	MCLK	MEMORY SERIAL COMMAND		PCK	DIFFERENCE
	MDATA	CLOCK		PDVD	PLL CLOCK
	MDQ0~UP	MEMORY SERIAL COMMAND		PEAK	DVD TRACKING PHASE
	MDQM	DATA		PLLCLK /	DIFFERENCE
	MLD	MEMORY DATA INPUT/OUTPUT		PLLOK	CAP. FOR PEAK HOLD
	MPEG	MEMORY DATA I/O MASK		PWMCTL	CHANNEL PLL CLOCK
		MEMORY SERIAL COMMAND		PWMDA	PLL LOCK
		LOAD		PWMOA, B	PWM OUTPUT CONTROL
		MOVING PICTURE EXPERTS			PULSE WAVE MOTOR DRIVE A
		GROUP			PULSE WAVE MOTOR OUT A, B

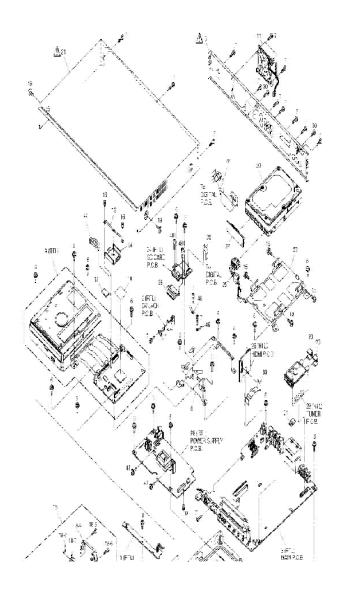
INIT	IAL/LOGO	ABBREVIATIONS			
R	RE	READ ENABLE			
	RFENV	RF ENVELOPE			
	RFO	RF PHASE DIFFERENCE			
	RS	OUTPUT			
	RSEL	(CD-ROM) REGISTER SELECT			
	RST	RF POLARITY SELECT			
	RSV	RESET			
		RESERVE			
S	SBI0, 1	SERIAL DATA INPUT			
	SBO0	SERIAL DATA OUTPUT			
	SBT0, 1	SERIAL CLOCK			
	SCK	SERIAL DATA CLOCK			
	SCKR	AUDIO SERIAL CLOCK			
	SCL	RECEIVER			
	SCLK	SERIAL CLOCK			
	SDA	SERIAL CLOCK			
	SEG0~UP	SERIAL DATA			
	SELCLK	FL SEGMENT OUTPUT			
	SEN	SELECT CLOCK			
	SIN1, 2	SERIAL PORT ENABLE			
	SOUT1, 2	SERIAL DATA IN			
	SPDI	SERIAL DATA OUT			
	SPDO	SERIAL PORT DATA INPUT			
	SPEN	SERIAL PORT DATA OUTPUT			
	SPRCLK	SERIAL PORT R/W ENABLE			
	SPWCLK	SERIAL PORT READ CLOCK			
	SQCK	SERIAL PORT WRITE CLOCK			
	SQCX	SUB CODE Q CLOCK			
	SRDATA	SUB CODE Q DATA READ			
	SRMADR	CLOCK			
	SRMDT0~7	SERIAL DATA			
		SRAM ADDRESS BUS			T
	SS	SRAM DATA BUS 0~7		TAL/LOGO	ABBREVIATIONS
	STAT	START/STOP	Т	TE	TRACKING ERROR
	STCLK	STATUS		TIBAL	BALANCE CONTROL
	STD0~UP	STREAM DATA CLOCK		TID	BALANCE OUTPUT 1
	STENABLE	STREAM DATA		TIN	BALANCE INPUT
		STREAM DATA INPUT ENABLE		TIP	BALANCE INPUT
	STSEL	STREAM DATA POLARITY		TIS	BALANCE OUTPUT 2
	STVALID	SELECT		TPSN	OP AMP INPUT
	SUBC	STREAM DATA VALIDITY		TPSO	OP AMP OUTPUT
	SBCK	SUB CODE SERIAL		TPSP	OP AMP INVERTED INPUT
	SUBQ	SUB CODE CLOCK		TRCRS	TRACK CROSS SIGNAL
	SYSCLK	SUB CODE Q DATA		TRON	TRACKING ON
		SYSTEM CLOCK		TRSON	TRAVERSE SERVO ON

IN	ITIAL/LOGO	ABBREVIATIONS			
VCC		V BLANKING			
		COLLECTOR POWER SUPPLY			
		VOLTAGE			
	VCDCONT	VIDEO CD CONTROL			
		(TRACKING			
	VDD	BALANCE)			
	VFB	DRAIN POWER SUPPLY			
	VREF	VOLTAGE			
	vss	VIDEO FEED BACK			
		VOLTAGE REFERENCE			
		SOURCE POWER SUPPLY			
		VOLTAGE			
W	WAIT	BUS CYCLE WAIT			
	WDCK	WORD CLOCK			
	WEH	WRITE ENABLE HIGH			
	WSR	WORD SELECT RECEIVER			
X	X	X' TAL			
	XALE	X ADDRESS LATCH ENABLE			
	XAREQ	X AUDIO DATA REQUEST			
	XCDROM	X CD ROM CHIP SELECT			
	xcs	X CHIP SELECT			
	XCSYNC	X COMPOSITE SYNC			
	XDS	X DATA STROBE			
	XHSYNCO	X HORIZONTAL SYNC OUTPUT			
	XHINT	XH INTERRUPT REQUEST			
	ΧI	X' TAL OSCILLATOR INPUT			
	XINT	X INTERRUPT			
	XMW	X MEMORY WRITE ENABLE			
	хо	X' TAL OSCILLATOR OUTPUT			
	XRE	X READ ENABLE			
	XSRMCE	X SRAM CHIP ENABLE			
	XSRMOE	X SRAM OUTPUT ENABLE			
	XSRMWE	X SRAM WRITE ENABLE			
	xvcs	X V-DEC CHIP SELECT			
	XVDS	X V-DEC CONTROL BUS			
	XVSYNCO	STROBE			
		X VERTICAL SYNC OUTPUT			

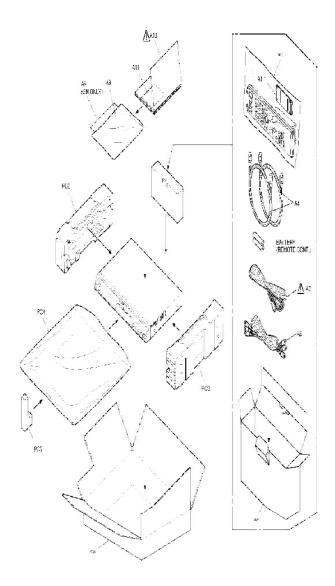
16. Parts and Exploded Views

16.1. Exploded Views

16.1.1. Casing Parts & Mechanism Section



16.1.2. Packing & Accessories Section



16.2. Replacement Parts List

Notes:

*Important safety notice:

Components identified by mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

- *Capacity values are in microfarads (F) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).
- *Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).
- *The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.
- *"(IA)-(IE)", marks in Remarks indicate languages of instruction manuals. [(IA): English, (IB): Chinese, (IC): Arabic, (ID): Russian, (IE): Ukrainian]
- *Parts indicated with PAVC-CSG in the Remarks column are supplied by PAVC-CSG.
- *All parts except parts indicated with (PAVC-CSG) in the Remarks column are supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
_	RFKB79119MT	MAIN P.C.B.		(RTL)EE
_	RFKB79119NT	MAIN P.C.B.		(RTL)GC,GCS,GN
_				
C1503	F2A1A6810022	10V 680P	1	
C1504	F2A1E1010067	25V 100U	1	
C1508	F1H1A105A028	10V 1U	1	
C1509	ECJ1VB1H103K	50V 0.01U	1	
C1510	F1H1A105A028	10V 1U	1	
C1511	F1H1A105A028	10V 1U	1	
C1512	F1H1A105A028	10V 1U	1	
C1515	F2A1E4700048	25V 47U	1	
C1516	F2A1H1510006	50V 150P	1	
C1518	F2A0J6810007	6.3V 680P	1	
C1519	F1H1A105A028	10V 1U	1	
C1519	F1H1A105A028	10V 1U	1	
C1520	F2A1C121A453	16V 120P	1	
C1521	F1H1A105A028	10V 1U	1	
C1522	F2A1A470A388	10V 10	1	
C1523	F2A1A101A389	10V 100U	1	
C1524	ECJ1VB1C104K		1	
C1525	F1H1A105A028	16V 0.1U	1	
	_	10V 1U		
C1527	F1H1A105A028	10V 1U	1	
C1528	F1K1C105A026	16V 1U	1	
C1529	F2A1A470A388	10V 47U	1	
C1535	F1H1A105A028	10V 1U	1	
C1536	F1J0J106A014	6.3V 10U	1	
C1538	F1H1A105A028	10V 1U	1	
C1539	F1H1A105A028	10V 1U	1	
C1540	ECJ1VB1H103K	50V 0.01U	1	
C1541	F2A1E1010067	25V 100U	1	
C1548	F2A1C121A453	16V 120P	1	
C1549	F2A1C121A453	16V 120P	1	
C3001	ECJ1VB1C104K	16V 0.1U	1	
C3002	ECJ1VB1H103K	50V 0.01U	1	
C3003	ECJ1VB1C104K	16V 0.1U	1	
C3004	ECJ1VB1C104K	16V 0.1U	1	
C3005	ECA0JM471B	6.3V 470U	1	
C3006	ECA0JM471B	6.3V 470U	1	
C3007	F2A1A4710038	10V 470U	1	
C3008	F2A1A1010072	10V 100U	1	
C3009	F2A1A4710038	10V 470U	1	
C3010	F2A1A1010072	10V 100U	1	
C3011	ECJ1VB1C104K	16V 0.1U	1	
C3012	F2A1A4710038	10V 470U	1	
C3013	F2A1A1010072	10V 100U	1	
C3014	ECJ1VB1C104K	16V 0.1U	1	
C3015	ECJ1VB1C104K	16V 0.1U	1	
C3016	ECJ1VB1C104K	16V 0.1U	1	
C3017	ECJ1VB1C104K	16V 0.1U	1	
C3018	ECJ1VB1C104K	16V 0.1U	1	
C3019	ECJ1VB1C104K	16V 0.1U	1	
C3020	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3021	ECJ1VB1C104K	16V 0.1U	1	
C3022	ECJ1VB1C104K	16V 0.1U	1	
C3024	ECJ1VB0J105K	6.3V 1U	1	
C3025	ECJ1VB1C104K	16V 0.1U	1	
C3026	ECJ1VB0J105K	6.3V 1U	1	
C3027	ECJ1VB1C104K	16V 0.1U	1	
C3028	ECJ1VB0J105K	6.3V 1U	1	
C3029	ECJ1VB1C104K	16V 0.1U	1	
C3031	ECJ1VB1H103K	50V 0.01U	1	
C3032	ECEA0JKA101B	6.3V 100U	1	
C3033	ECJ1VB1H103K	50V 0.01U	1	
C3034	ECJ1VB1H103K	50V 0.01U	1	
C3035	ECEA0JKA101B	6.3V 100U	1	
C3038	ECJ1VB1C104K	16V 0.1U	1	
C3039	ECJ1VB1C104K	16V 0.1U	1	
C3041	ECJ1VC1H330J	50V 33P	1	
C3057	ECJ1VB1H102K	50V 1000P	1	
C3058	ECJ1VC1H471J	50V 470P	1	
	ECJ1VB1H102K		1	
C3059 C3060		50V 1000P 50V 470P		
	ECJ1VC1H471J		1	
C3064	ECJ1VB1C104K	16V 0.1U	1	
C3070	ECJ1VB1H102K	50V 1000P	1	
C3071	ECJ1VB1H102K	50V 1000P	1	
C3072	ECJ1VB1C104K	16V 0.1U	1	
C3910	F2A1V100A534	35V 10U	1	
C3911	F2A1V100A534	35V 10U	1	
C3914	F2A1H100A236	50V 10U	1	
C3915	F2A1H100A236	50V 10U	1	
C3916	F2A1H1R0A236	50V 1U	1	
C3917	F2A1H1R0A236	50V 1U	1	
C3918	F2A1H100A236	50V 10U	1	
C3919	F2A1H100A236	50V 10U	1	
C3928	F2A1H1R0A638	50V 1U	1	
C3929	F2A1H1R0A638	50V 1U	1	
C3935	F2A1E2210050	25V 220U	1	
C3953	ECJ1VC1H471J	50V 470P	1	
C3954	ECJ1VC1H471J	50V 470P	1	
C3955	ECJ1VC1H221J	50V 220P	1	
C3956	ECJ1VC1H221J	50V 220P	1	
C3957	ECJ1VC1H471J	50V 470P	1	
C3958	ECJ1VC1H471J	50V 470P	1	
C3961	ECJ1VC1H221J	50V 220P	1	
C3962	ECJ1VC1H221J	50V 220P	1	
C4003	ECJ1VB0J105K	6.3V 1U	1	
C4005	F2A1V100A534	35V 10U	1	
C4006	F2A1V100A534	35V 10U	1	
C4008	F2A1E1010067	25V 100U	1	
C4019	F2A1C100A796	16V 10P	1	
C4021	F2A1C100A796	16V 10P	1	
C4023	F2A1H1R0A638	50V 1U	1	
C4024	F2A1E1010067	25V 100U	1	
C4025	F2A1H1R0A638	50V 1U	1	
C4027	F2A1V100A534	35V 10U	1	
C4028	F2A1V100A534	35V 10U	1	
C4033	F2A1C220B173	16V 22P	1	
C4034	F2A1C220B173	16V 22P	1	
'		1		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4056	F2A1C471A628	16V 470U	1	
C4057	F1J1H330A688	50V 33U	1	
C4059	ECQV1H104JL3	50V 0.1U	1	
C4060	F1J1H330A688	50V 33U	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1C221A637	16V 220U	1	
C4063	F2A1C220B173	16V 22P	1	
C4064	F2A1C220B173	16V 22P	1	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A1E2210050	25V 220U	1	
C4070	F2A1C221A637	16V 220U	1	
C4072	F2A1C221A637	16V 220U	1	
C4082	ECJ2VC1H561J	50V 560P	1	
C4083	ECJ2VC1H561J	50V 560P	1	
C4092	F2A1C471A628	16V 470U	1	
C4901	F2A0J470A599	6.3V 47U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4902 C4903		25V 47U	1	
	F2A1E4700048			
C4904	ECJ1VF1C104Z	16V 0.1U	1	
C4907	ECHR1H223JZ3	50V 0.022U	1	
C7301	ECJ1VB1C104K	16V 0.1U	1	
C7303	ECA1CAK101XB	16V 100U	1	
C7305	ECA1CAK101XB	16V 100U	1	
C7306	ECJ1VB1H103K	50V 0.01U	1	
C7307	ECJ1VC1H100D	50V 10P	1	
C7308	ECJ1VC1H100D	50V 10P	1	
C7309	ECJ1VC1H101J	50V 100P	1	
C7310	ECJ1VC1H101J	50V 100P	1	
C7312	F2A1V100A384	35V 10U	1	
C7313	F2A1V100A384	35V 10U	1	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECA1CAK470XB	16V 47U	1	
C7323	ECJ1VB1H102K	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/10W 0	1	
C7330	ERJ3GEYJ822V	1/10W 8.2K	1	
C7332	ECJ1VF1C104Z	16V 0.1U	1	
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECA1HAK2R2XB	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
C7340	ECJ1VB1C104K	16V 0.1U	1	
C7401	F2A1C471A628	16V 470U	1	
C7402	ECJ1VB1H103K	50V 0.01U	1	
C7403	ECHR1H223JZ3	50V 0.022U	1	
C7404	F1H1A105A028	10V 1U	1	
C7404	F2A1C470A689	16V 47	1	
C7405	F1H1A105A028	10V 1U	1	
			1	
C7412	ECJ1VB1C104K	16V 0.1U		
C7412	F1H1A105A028	10V 1U	1	
C7413	F1H1A105A028	10V 1U	1	
C7414	F1H1A105A028	10V 1U	1	
C7415	F1K1C105A026	16V 1U	1	
C7417	ECJ1VB1C104K	16V 0.1U	1	
C7418	F2A0J221A458	6.3V 220U	1	
C7419	ECJ1VB0J105K	6.3V 1U	1	
C7439	ECJ1VB1C104K	16V 0.1U	1	
C7501	F1J0J475A008	6.3V 4.7U	1	

0.001 | 1.00041.01.000 | 0.01.41.0

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7502	ECJ1VC1H101J	50V 100P	1	
C7503	F1J0J475A008	6.3V 4.7U	1	
C7504	ECJ1VB1C104K	16V 0.1U	1	
C7505	ECJ1VB1C104K	16V 0.1U	1	
C7507	ECJ1VB1C104K	16V 0.1U	1	
C7509	ECJ1VB1C104K	16V 0.1U	1	
C7510	ECJ1VB1C104K	16V 0.1U	1	
C7511	ECJ1VC1H101J	50V 100P	1	
C7512	ECJ1VB1C104K	16V 0.1U	1	
C7513	F2A1V390A386	35V 39U	1	
C7514	ECJ1VB1H103K	50V 0.01U	1	
C7516	ECJ1VC1H180J	50V 18P	1	
C7517	ECJ1VC1H180J	50V 18P	1	
C7518	F1H1H220A799	50V 22P	1	
C7519	ECJ1VC1H180J	50V 18P	1	
C7520	ECJ1VB1C104K	16V 0.1U	1	
C7522	ECJ1VC1H101J	50V 100P	1	
C7522	ECJ1VC1H1013 ECJ1VB1H103K	50V 100P	1	
C7523	ECJ1VB1C104K	16V 0.1U	1	
	ECJ1VB1C104K		1	
C7528		16V 0.1U	1	
C7531	ECJ1VC1H100D	50V 10P	-	
C7532	ECJ1VC1H100D	50V 10P	1	
C7534	ECJ1VB1H103K	50V 0.01U	1	
C7541	F1H1H470A799	50V 47P	1	
C7542	ECJ1VB1C104K	16V 0.1U	1	
C7543	F1H1H470A799	50V 47P	1	
C7544	ECJ1VB1C104K	16V 0.1U	1	
C7546	ECJ1VB0J105K	6.3V 1U	1	
C7547	ECJ1VB0J105K	6.3V 1U	1	
C7551	ECJ1VB1C104K	16V 0.1U	1	
C7552	ECJ1VC1H221J	50V 220P	1	
C7553	ECJ1VC1H221J	50V 220P	1	
C7554	ECJ1VB1H103K	50V 0.01U	1	
C7555	ECJ1VB1H103K	50V 0.01U	1	
C7556	ECJ1VB1H103K	50V 0.01U	1	
C7557	ECJ1VB1H103K	50V 0.01U	1	
C7558	ECJ1VB1H103K	50V 0.01U	1	
C7565	F2A1C121A453	16V 120P	1	
C7569	ECQB1H392KF3	50V 3900P	1	
C7570	F2A1V560A387	35V 56U	1	
C7571	F2A1H100A454	50V 10U	1	
C7572	F2A1C121A453	16V 120P	1	
C7573	F2A1H100A454	50V 10U	1	
C7577	ECJ1VB1C104K	16V 0.1U	1	
C7578	F2A0J470A012	6.3V 47U	1	
C7579	F2A0J470A012	6.3V 47U	1	
C7584	F4D55473A013	5.5V 0.047U	1	
C7587	ECJ1VB0J105K	6.3V 1U	1	
C7588	ECJ1VB1H103K	50V 0.01U	1	
C7590	ECJ1VB1C104K	16V 0.1U	1	
C7592	F2A0J470A245	6.3V 47U	1	
C7593	F2A1C121A453	16V 120P	1	
D3901	MA2C165001VT	DIODE	1	
D4001	MA2C165001VT	DIODE	1	
D4005	MA3Z142D0LG	DIODE	1	
D4006	MA3Z142D0LG	DIODE	1	
C7570 C7571 C7572 C7573 C7577 C7578 C7579 C7584 C7587 C7588 C7590 C7592 C7592 C7593 D3901 D4001 D4005	F2A1V560A387 F2A1H100A454 F2A1C121A453 F2A1H100A454 ECJ1VB1C104K F2A0J470A012 F4D55473A013 ECJ1VB0J105K ECJ1VB1H103K ECJ1VB1C104K F2A0J470A245 F2A1C121A453 MA2C165001VT MA3Z142D0LG	35V 56U 50V 10U 16V 120P 50V 10U 16V 0.1U 6.3V 47U 6.3V 47U 5.5V 0.047U 6.3V 1U 50V 0.01U 16V 0.1U 6.3V 47U DIODE DIODE DIODE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7403	MA2C165001VT DIO		1	
D7501	B0BA03600021 DIO	DE	1	
D7502	B0ACCK000005 DIO		1	
D7504	MAZ4220NLF DIO		1	
D7505	B0AADM000003 DIO		1	
D7506	B0AADM000003 DIO		1	
D7507	B0JAMD000026 DIO		1	
D7508	MAZ4180NHF DIO		1	
D7509	B0JDCE000002 DIO		1	
D7510	MA2C165001VT DIO	DE	1	
DP7501	A2BD00000145 DISI	PLAY TUBE	1	
IC1505	C0CBCBC00174 IC		1	
IC1506	C0DAEYH00002 IC		1	
IC1507	COCBCDD00027 IC		1	
IC1510	COCBCDG00006 IC		1	
IC1520	C0CBCDC00052 IC		1	
IC1521	C0CBCBD00048 IC		1	
IC1522	C0EBJ0000143 IC		1	
IC3001	C1AB00002379 IC		1	
IC4009	C0ABBB000216 IC		1	
IC4011	C0DBAHD00013 IC		1	
IC4012	C0ABBB000230 IC		1	
IC4901	B3ZAZ0000017 IC		1	
IC7301	C1AB00002225 IC		1	
IC7302	C0EAH0000051 IC		1	
IC7401	C0CBCYG00004 IC		1	
IC7402	C0CBCDC00052 IC		1	
IC7403	C0CBCDD00025 IC		1	
IC7404	RFKFM6016KT IC		1	(PAVC-CSG)
			1	(FAVC-C3G)
IC7501				
IC7502	C0EBE0000504 IC		1	
IC7504	C0HBB0000044 IC		1	
IC7505	C0EBJ0000336 IC		1	
IC7507	C0ABBA000073 IC		1	
IP1501	K5H302100004 IC P	PROTECTOR	1	
IP7501		PROTECTOR	1	
167501	K3H731ZAUU1U ICP	ROTECTOR		
IR7501	PNA4618M09VT REM	MOTE SENSOR	1	
JK3001	K1U822B00003 JAC	K,OUT,AV4 IN	1	
JK3001		K,AV3	<u>'</u>	
JK3002 JK3901		K,AV1,AV2	<u>'</u>	
JK3903	K2HA306B0085 JAC	K,COMPONENT VIDEO OUT	1	
JW7501	VWJ02F0060VV MAI	N/FRONT CABLE UNIT	1	
K7303	ERJ3GEY0R00V 1/10	W 0	1	
K7308		W 0	1	
K7503		W 0	1	
K7504		W 0	1	
	a l			
L1505	G0A100HA0023 COI	L 10UH	1	
L1505 L4901		L 10UH L 22UH	1	

emarks	Pcs	Part Name & Description	Part No.	Ref. No.
	1	COIL 2.2UH	G0C2R2JA0019	L7304
	1	COIL 22UH	G0A220GA0026	L7401
	1	COIL 22UH	G0A220GA0026	L7402
	1	COIL 39UH	G0C390JA0055	L7501
	1	COIL 22UH	G0C220JA0019	L7502
	1	COIL	J0JKB0000003	LB1502
	1	COIL	J0JKB0000003	LB1503
	1	COIL	J0JKB0000003	LB1504
	1	COIL	J0JKB0000003	LB1506
	1	COIL	J0JGC0000020	LB3001
	1	COIL	J0JGC0000020	LB3002
	1	COIL	J0JGC0000020	LB3003
	1	COIL	J0JBC0000011	LB3005
	1	COIL	J0JBC0000019	LB3006
	1	COIL	J0JBC0000011	LB3007
	1	COIL	J0JBC0000019	LB3008
	1	1/10W 0	ERJ3GEY0R00V	LB3009
	1	1/10W 0	ERJ3GEY0R00V	LB3010
	1	1/10W 0	ERJ3GEY0R00V	LB3011
	1	COIL	J0JBC0000011	LB3012
	1	COIL	J0JBC0000011	LB3013
	1	COIL	J0JBC0000011	LB3907
	1	COIL	J0JBC0000011	LB3908
	1	COIL	J0JGC0000020	LB3911
	1	COIL	J0JBC0000011	LB3912
	1	COIL	J0JBC0000011	LB3913
	1	COIL	J0JCC0000124	LB7301
	1	COIL	J0JCC0000124	LB7302
	1	COIL	J0JCC0000080	LB7303
	1	COIL	J0JHC0000032	LB7304
	1	COIL	J0JGC0000020	LB7401
	1	COIL	J0JKB0000012	LB7402
	1	COIL	J0JKB0000012	LB7403
	1	COIL	J0JKB0000012	LB7404
	1	COIL	J0JKB0000012	LB7405
	1	COIL	J0JCC0000164	LB7406
	1	COIL	J0JKB0000012	LB7407
	1	COIL	J0JCC0000164	LB7408
	1	COIL	J0JKB0000012	LB7409
	1	COIL	J0JCC0000103	LB7410
	1	COIL	J0JCC0000164	LB7411
	1	COIL	J0JCC0000164	LB7412
	1	COIL	J0JCC0000164	LB7413
	1	COIL	J0JCC0000164	LB7414
	1	COIL	J0JCC0000103	LB7415
	1	COIL	J0JCC0000164	LB7416
	1	COIL	J0JCC0000103	LB7417
	1	COIL	J0JCC0000103	LB7418
	1 1 1 1 1 1 1 1 1	COIL COIL 1/10W 0 1/10W 0 1/10W 0 1/10W 0 COIL 1/10W 0	J0JCC0000103 J0JCC0000164 ERJ3GEY0R00V ERJ3GEY0R00V ERJ3GEY0R00V J0JCC0000060 ERJ3GEY0R00V	LB7418 LB7419 LB7420 LB7501 LB7502 LB7507 LB7508 LB7509 LB7510

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB7515	ERJ3GEY0R00V	1/10W 0	1	
LB7516	ERJ3GEY0R00V	1/10W 0	1	
LB7517	ERJ3GEY0R00V	1/10W 0	1	
P1501	K1KA23A00003	CONNECTOR(23P)	1	
P1503	K1KA04AA0301	CONNECTOR(4P)	1	
P7402	K1KA88A00002	CONNECTOR(88P)	1	
P7505	K1KY10AA0107	CONNECTOR(10P)	1	
PP7401	K1KA18AA0288	CONNECTOR(18P)	1	
Q1501	B1DHED000008	TRANSISTOR	1	
Q1509	B1DHED000008	TRANSISTOR	1	
Q4006	2SD132800L	TRANSISTOR	1	
Q4007	2SD132800L	TRANSISTOR	1	
Q4008	2SD132800L	TRANSISTOR	1	
Q4009	2SD132800L	TRANSISTOR	1	
Q7401	2SD1819ARL	TRANSISTOR	1	
Q7402	2SD1819A0L	TRANSISTOR	1	
Q7501	2SB1218A0L	TRANSISTOR	1	
Q7502	2SD1819A0L	TRANSISTOR	1	
Q7503	2SB1218A0L	TRANSISTOR	1	
Q7504	2SD1819A0L	TRANSISTOR	1	
Q7505	2SD0601A0L	TRANSISTOR	1	
Q7506	2SD0601A0L	TRANSISTOR	1	
Q7507	2SD0601A0L	TRANSISTOR	1	
Q7508	2SD1819A0L	TRANSISTOR	1	
Q7509	2SD0601A0L	TRANSISTOR	1	
Q7510	B1BABK000001	TRANSISTOR	1	
Q7511	B1ABMD00004	TRANSISTOR	1	
Q. C. I	D17-2011-2000004	TI SALOIOT ON	•	
QR1501	UNR521300L	TRANSISTOR	1	
QR1503	UNR521300L	TRANSISTOR	1	
QR4002	UNR511100L	TRANSISTOR	1	
QR4003	UNR521100L	TRANSISTOR	1	
QR4004	UNR521100L	TRANSISTOR	1	
QR7401	UNR521300L	TRANSISTOR	1	
QR7402	UNR511200L	TRANSISTOR	1	
QR7403	UNR521500L	TRANSISTOR	1	
QR7404	UNR521500L	TRANSISTOR	1	
QR7507	UNR521000L	TRANSISTOR	1	
QR7508	UNR521400L	TRANSISTOR	1	
Q. t. root	01111021-1002	TISALOIS I SIX	· •	
R1502	ERJ3GEYJ103V	1/10W 10K	1	
R1505	ERJ3GEYJ823V	1/10W 82K	1	
R1506	ERJ3GEYJ222V	1/10W 2.2K	1	
R1507	ERJ3GEYJ822V	1/10W 8.2K	1	
R1509	ERJ3RBD393V	1/16W 39K	1	
R1510	ERJ3RBD113V	1/16W 11K	1	
R1510	ERJ3RBD152V	1/16W 1.5K	1	
R1518	ERJ3GEYJ223V	1/10W 1.5K	1	
R1516	ERJ3GEYJ223V	1/10W 22K	1	
			1	
R3001	ERJ3GEYJ102V	1/10W 1K		
R3003	ERJ3GEYJ102V	1/10W 1K	1	
R3004	ERJ3GEYJ102V	1/10W 1K	1	
R3006	ERJ3GEY0R00V	1/10W 0	1	
R3007	ERJ3GEYJ330V	1/10W 33	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3008	ERJ3GEYJ102V	1/10W 1K	1	
R3009	ERJ3GEYJ104V	1/10W 100K	1	
R3054	ERJ3GEYJ750V	1/10W 75	1	
R3055	ERJ3GEYJ750V	1/10W 75	1	
R3056	ERJ3GEYJ750V	1/10W 75	1	
R3057	ERJ3GEYJ750V	1/10W 75	1	
R3058	ERJ3GEYJ750V	1/10W 75	1	
R3059	ERJ3GEYJ750V	1/10W 75	1	
R3060	ERJ3GEYJ750V	1/10W 75	1	
R3061	ERJ3GEYJ750V	1/10W 75	1	
R3062	ERJ3GEYJ750V	1/10W 75	1	
R3901	ERJ3GEYF750V	1/10W 75	1	
R3902	ERJ3GEYF750V	1/10W 75	1	
R3903	ERJ3GEYF750V	1/10W 75	1	
R3912	ERJ3GEYJ103V	1/10W 10K	1	
R3913	ERJ3GEYJ103V	1/10W 10K	1	
R3914	ERJ3GEYJ471V	1/10W 470	1	
R3918	ERJ3GEYJ471V	1/10W 470	1	
R3919	ERJ3GEYF750V	1/10W 75	1	
R3920	ERJ3GEYF750V	1/10W 75	1	
R3921	ERJ3GEYF750V	1/10W 75	1	
R3922	ERJ3GEYJ471V	1/10W 470	1	
R3923	ERJ3GEYJ471V	1/10W 470	1	
R3924	ERDS2TJ221T	1/4W 220	1	
R3925	ERJ3GEYF750V	1/10W 75	1	
R3926	ERJ3GEYF750V	1/10W 75	1	
R3927	ERJ3GEYF750V	1/10W 75	1	
			1	
R3928	ERJ3GEYJ750V	1/10W 75	1	
R3929	ERJ3GEYJ750V	1/10W 75		
R3930	ERJ3GEYJ750V	1/10W 75	1	
R3932	ERJ3GEYJ750V	1/10W 75	1	
R3934	ERJ3GEYJ750V	1/10W 75	1	
R3935	ERJ3GEYJ750V	1/10W 75	1	
R3975	ERJ3GEYJ101V	1/10W 100	1	
R3976	ERJ3GEYJ101V	1/10W 100	1	
R3983	ERJ3GEYJ103V	1/10W 10K	1	
R3984	ERJ3GEYJ103V	1/10W 10K	1	
R3987	ERJ3GEYJ473V	1/10W 47K	1	
R3988	ERJ3GEYJ102V	1/10W 1K	1	
R3989	ERJ3GEYJ102V	1/10W 1K	1	
R3990	ERJ3GEYJ473V	1/10W 47K	1	
R3991	ERJ3GEYJ473V	1/10W 47K	1	
R3992	ERJ3GEYJ102V	1/10W 1K	1	
R3993	ERJ3GEYJ102V	1/10W 1K	1	
R3994	ERJ3GEYJ473V	1/10W 47K	1	
R4003	ERJ3GEYJ821V	1/10W 820	1	
R4004	ERJ3GEYJ103V	1/10W 10K	1	
R4005	ERJ3GEYJ821V	1/10W 820	1	
R4006	ERJ3GEYJ823V	1/10W 82K	1	
R4007	ERJ3GEYJ823V	1/10W 82K	1	
R4008	ERJ3GEYJ823V	1/10W 82K	1	
R4010	ERJ3GEYJ473V	1/10W 47K	1	
R4011	ERJ3GEYJ473V	1/10W 47K	1	
R4013	ERJ3GEYJ823V	1/10W 82K	1	
R4046	D0HB682ZA002	1/16W 6.8K	1	
R4047	D0HB682ZA002	1/16W 6.8K	1	
R4055	D0HB123ZA002	1/16W 12K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4057	D0HB123ZA002	1/16W 12K	1	
R4066	D0HB103ZA002	1/10W 10K	1	
R4067	D0HB103ZA002	1/10W 10K	1	
R4071	ERJ3GEYJ473V	1/10W 47K	1	
R4074	ERJ3GEYJ473V	1/10W 47K	1	
R4076	ERJ3GEYJ821V	1/10W 820	1	
R4077	ERJ3GEYJ101V	1/10W 100	1	
R4078	ERJ3GEYJ272V	1/10W 2.7K	1	
R4079	ERJ3GEYJ272V	1/10W 2.7K	1	
R4080	ERJ3GEYJ101V	1/10W 100	1	
R4081	ERJ3GEYJ821V	1/10W 820	1	
R4088	ERJ3GEYJ272V	1/10W 2.7K	1	
R4089	ERJ3GEYJ272V	1/10W 2.7K	1	
R4090	ERJ3GEYJ121V	1/10W 120	1	
R4093	ERJ3GEYJ121V	1/10W 120	1	
R4094	ERJ3GEYJ223V	1/10W 22K	1	
R7304	ERJ3GEYJ101V	1/10W 100	1	
R7307	ERJ3GEY0R00V	1/10W 0	1	
R7312	ERJ3GEYF221V	1/10W 220	1	
R7313	ERJ3GEYF221V	1/10W 220	1	
R7317	ERJ3GEY0R00V	1/10W 0	1	
R7319	ERJ3GEY0R00V	1/10W 0	1	
R7322	ERJ3GEY0R00V	1/10W 0	1	
R7324	ERJ3GEYJ221V	1/10W 220	1	
R7325	ERJ3GEYJ221V	1/10W 220	1	
R7326	ERJ3GEY0R00V	1/10W 0	1	
R7401	ERJ3GEYJ104V	1/10W 100K	1	
R7402	ERJ3GEYJ103V	1/10W 10K	1	
R7403	ERJ3GEYJ153V	1/10W 15K	1	
R7404	ERJ3GEYJ223V	1/10W 22K	1	
R7405	ERDS2TJ471T	1/4W 470	1	
R7406	ERJ3GEYJ474V	1/10W 470K	1	
R7407	ERJ3GEYJ103V	1/10W 10K	1	
R7408	ERJ3GEYJ153V	1/10W 15K	1	
R7409	ERJ3GEYJ101V	1/10W 100	1	
R7410	ERJ3GEYJ821V	1/10W 820	1	
R7411	ERJ3GEYJ472V	1/10W 4.7K	1	
R7412	ERJ3GEYJ472V	1/10W 4.7K	1	
R7414	ERJ3GEYJ472V	1/10W 4.7K	1	
R7444	ERJ3RED300V	1/16W 30	1	
R7445	ERJ3RBD682V	1/16W 6.8K	1	
R7446	ERJ3RBD202V	1/16W 2K	1	
R7448	ERJ3GEYJ182V	1/10W 1.8K	1	
R7501	ERJ3GEYJ102V	1/10W 1K	1	
R7502	ERJ3GEYJ392V	1/10W 3.9K	1	
R7503	ERJ3GEYJ104V	1/10W 100K	1	
R7504	ERJ3GEYJ102V	1/10W 1K	1	
R7505	ERJ3GEYF153V	1/10W 15K	1	
R7506	ERJ3GEYJ104V	1/10W 100K	1	
R7507	ERJ3GEYF152V	1/10W 1.5K	1	
R7508	ERJ3GEYF562V	1/10W 5.6K	1	
R7509	ERJ3GEYJ101V	1/10W 100	1	
R7510	ERJ3GEYJ101V	1/10W 100	1	
R7511	ERJ3GEYJ101V	1/10W 100	1	
R7512	ERJ3GEYJ101V	1/10W 100	1	
R7513	ERJ3GEYJ101V	1/10W 100	1	
R7514	ERJ3GEYJ101V	1/10W 100	1	

......

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7517	ERJ3GEYJ472V	1/10W 4.7K	1	
R7518	ERJ3RBD273V	1/16W 27K	1	
R7520	ERJ3GEYJ103V	1/10W 10K	1	
R7521	ERJ3GEYJ103V	1/10W 10K	1	
R7522	ERJ3GEYJ473V	1/10W 47K	1	
R7523	ERJ3GEY0R00V	1/10W 0	1	
R7524	ERJ3GEYJ101V	1/10W 100	1	
R7525	ERJ3GEY0R00V	1/10W 0	1	
R7526	ERJ3GEY0R00V	1/10W 0	1	
R7527	ERJ3GEYJ101V	1/10W 100	1	
R7528	ERJ3GEYJ101V	1/10W 100	1	
R7529	ERJ3GEYJ101V	1/10W 100	1	
R7530	ERJ3GEYJ223V	1/10W 22K	1	
R7531	ERJ3GEYJ104V	1/10W 100K	1	
R7532	ERJ3GEYJ332V	1/10W 3.3K	1	
R7533	ERJ3GEY0R00V	1/10W 0	1	
R7534	ERJ3GEYJ103V	1/10W 10K	1	
			-	
R7535	ERJ3GEYJ101V	1/10W 100	1	
R7536	ERJ3GEYJ101V	1/10W 100	1	
R7537	ERJ3GEYJ101V	1/10W 100	1	
R7539	ERJ3GEYJ472V	1/10W 4.7K	1	
R7540	ERJ3GEYJ103V	1/10W 10K	1	
R7543	ERJ3GEYJ101V	1/10W 100	1	
R7544	ERJ3GEYJ101V	1/10W 100	1	
R7548	ERJ3GEYJ472V	1/10W 4.7K	1	
R7549	ERJ3GEYJ472V	1/10W 4.7K	1	
R7558	ERJ3GEYJ202V	1/10W 2K	1	
R7559	ERJ3GEYJ202V	1/10W 2K	1	
R7561	ERJ3GEYJ101V	1/10W 100	1	
R7562	ERJ3GEYJ101V	1/10W 100	1	
R7564	ERJ3GEYJ101V	1/10W 100	1	
R7565	ERJ3GEYJ101V	1/10W 100	1	
R7566	ERJ3GEYJ101V	1/10W 100	1	
R7567	ERJ3GEYJ101V	1/10W 100	1	
R7568	ERJ3GEYJ101V	1/10W 100	1	
R7570	ERJ3GEYJ392V	1/10W 3.9K	1	
R7571	ERJ3GEYJ101V	1/10W 100	1	
R7572	ERJ3GEYJ101V	1/10W 100	1	
R7574	ERJ3GEYJ223V	1/10W 22K	1	
R7575	ERJ3GEYJ101V	1/10W 100	1	
R7576	ERJ3GEYJ102V	1/10W 1K	1	
R7577	ERJ3GEYJ103V	1/10W 10K	1	
R7579	ERJ3GEYJ223V	1/10W 22K	1	
R7582	ERJ3GEYJ104V	1/10W 100K	1	
R7583	ERJ3GEYJ472V	1/10W 4.7K	1	
R7584	ERJ3GEYJ473V	1/10W 47K	1	
R7585	ERJ3GEYJ225V	1/10W 2.2M	1	
R7586	ERJ3GEYJ273V	1/10W 27K	1	
R7587	ERJ3GEYJ224V	1/10W 220K	1	
R7588	ERJ3GEYJ104V	1/10W 100K	1	
R7589	ERJ3GEYJ221V	1/10W 220	1	
R7590	ERJ3GEYJ104V	1/10W 100K	1	
R7597	ERJ3GEYJ822V	1/10W 8.2K	1	
R7598	ERJ3GEYJ822V	1/10W 8.2K	1	
R7599	ERJ3GEYJ822V	1/10W 8.2K	1	
R7600	ERJ3GEYJ103V	1/10W 10K	1	
R7601	ERJ3GEYJ102V	1/10W 1K	1	
	V			l .

......

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7606	ERJ3GEYF393V	1/10W 39K	1	
R7607	ERJ3GEYJ101V	1/10W 100	1	
R7608	ERJ3GEYF433V	1/10W 43K	1	
R7612	ERJ3GEYJ562V	1/10W 5.6K	1	
R7614	ERJ3GEYJ470V	1/10W 47	1	
R7615	ERJ3GEYJ473V	1/10W 47K	1	
R7616	ERJ3GEYJ473V	1/10W 47K	1	
R7617	ERDS2TJ271T	1/4W 270	1	
R7619	ERJ3GEYJ103V	1/10W 10K	1	
R7621	ERJ3GEYJ104V	1/10W 100K	1	
R7623	ERJ3GEYJ181V	1/10W 180	1	
R7624	ERJ3GEYJ103V	1/10W 10K	1	
R7625	ERJ3GEYJ103V	1/10W 10K	1	
R7626	ERJ3GEYJ821V	1/10W 820	1	
R7627	ERJ3GEYJ303V	1/10W 30K	1	
R7639	ERJ3GEYJ272V	1/10W 2.7K	1	
R7640	ERJ3GEYJ272V	1/10W 2.7K	1	
R7641	ERJ3GEYJ272V	1/10W 2.7K	1	EE
R7642	ERJ3GEYJ562V	1/10W 5.6K	1	
R7643	ERJ3GEYJ163V	1/10W 16K	1	
R7644	ERJ3GEYJ562V	1/10W 16K	1	
R7648	ERDS2TJ470T	1/4W 47	1	
R7651	ERJ3GEYJ472V	1/10W 4.7K	1	
	ERJ3GEYJ101V	1/10W 100	1	
R7653			1	
R7655	ERJ3GEYJ101V	1/10W 100	1	
S7501	EVQ11A04M	SWITCH,EXT LINK	1	EE
S7502	EVQ11A04M	SWITCH,CH DOWN	1	
S7503	EVQ11A04M	SWITCH,CH UP	1	
S7504	EVQ11A04M	SWITCH,OPEN/CLOSE	1	
S7505	EVQ11A04M	SWITCH,SELECT	1	
S7506	EVQ11A04M	SWITCH,STOP	1	
S7507	EVQ11A04M	SWITCH,PLAY	1	
S7508	EVQ11A04M	SWITCH,REC	1	
T7501	G4D1A0000117	TRANSFORMER	1	
			-	
W501	ERJ3GEY0R00V	1/10W 0	1	
W502	ERJ3GEY0R00V	1/10W 0	1	
W503	ERJ3GEY0R00V	1/10W 0	1	
W504	ERJ3GEY0R00V	1/10W 0	1	
W505	ERJ3GEY0R00V	1/10W 0	1	
W506	ERJ3GEY0R00V	1/10W 0	1	
W507	ERJ3GEY0R00V	1/10W 0	1	
W508	ERJ3GEY0R00V	1/10W 0	1	
W509	ERJ3GEY0R00V	1/10W 0	1	
W510	ERJ3GEY0R00V	1/10W 0	1	
W510	ERJ3GEY0R00V	1/10W 0	1	
			1	
W512	ERJ3GEY0R00V	1/10W 0		
W513	ERJ3GEY0R00V	1/10W 0	1	
W514	ERJ3GEY0R00V	1/10W 0	1	
W515	ERJ3GEY0R00V	1/10W 0	1	
W516	ERJ3GEY0R00V	1/10W 0	1	
W517	ERJ3GEY0R00V	1/10W 0	1	
W518	ERJ3GEY0R00V	1/10W 0	1	
W519	ERJ3GEY0R00V	1/10W 0	1	
W520	ERJ3GEY0R00V	1/10W 0	1	

Part No.	Part Name & Description	Pre	Remarks
_			Remarks
_			
_			
_			
ERJ3GEY0R00V	1/10W U	1	
H0D245500016	CRYSTAL OSCILLATOR	1	
HUA327200100	CRYSTAL OSCILLATOR	+ '-	
VEP07A91D	TUNER P.C.B.		(RTL)
E0 141/D4114001/	501.0.0411		
ECJ1VB1H103K	50V 0.01U	1	
B0BA03000015	DIODE	1	
BobAccoccio	DIODE	+ '-	
ERJ3GEY0R00V	1/10W 0	1	
	1/10W 0	1	
		-	
J0JHC0000032	COIL	1	
J0JHC0000032	COIL	1	
J0JHC0000032	COIL	1	
K1KB18B00012	CONNECTOR(18P)	1	
2SB1218A0L	TRANSISTOR	1	
ERDS2TJ102T	1/4W 1K	1	
_	1/8W 680	1	
ERJ6GEYJ681V			
ERJ6GEYJ681V ERJ3GEYJ471V			
ERJ3GEYJ471V	1/10W 470	1	
_			
	ECJ1VB1H103K F2A0J470A599 F2A1H2200032 F2A0J470A599 ECJ1VC1H330J ECJ1VC1H330J ECJ1VB1C104K ECJ1VB1H103K F2A0J470A599 ECJ1VC1H101J ECJ1VB1H103K B0BA03000015 ERJ3GEY0R00V ERJ3GEY0R00V J0JHC0000032 J0JHC0000032 K1KB18B00012	ERJ3GEY0R00V 1/10W 0 ERJ3GEY0R00V 1/8W 0 ERJ6GEY0R00V 1/8W 0 ERJ6GEY0R00V 1/8W 0 ERJ6GEY0R00V 1/8W 0 ERJ3GEY0R00V 1/10W 0	ERJ3GEY0R00V 1/10W 0 1 ECJ1VB1H103K 50V 0.01U 1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7844	ERJ6GEYJ681V	1/8W 680	1	
TU7801	ENGF7502GF	TUNER	1	
W501	ERJ6GEY0R00V	1/8W 0	1	
W502	ERJ3GEY0R00V	1/10W 0	1	
W503	ERJ6GEY0R00V	1/8W 0	1	
W504	ERJ6GEY0R00V	1/8W 0	1	
W505	ERJ6GEY0R00V	1/8W 0	1	
W506	ERJ3GEY0R00V	1/10W 0	1	
W507	ERJ3GEY0R00V	1/10W 0	1	
W508	ERJ6GEY0R00V	1/8W 0	1	
W509	ERJ3GEY0R00V	1/10W 0	1	
W510	ERJ3GEY0R00V	1/10W 0	1	
W511	ERJ3GEY0R00V	1/10W 0	1	
W512	ERJ3GEY0R00V	1/10W 0	1	
W513	ERJ3GEY0R00V	1/10W 0	1	
W514	ERJ6GEY0R00V	1/8W 0	1	
W515	ERJ3GEY0R00V	1/10W 0	1	
W516	ERJ3GEY0R00V	1/10W 0	1	
W517	ERJ8GEY0R00V	1/4W 0	1	
W518	ERJ6GEY0R00V	1/8W 0	1	
W519	ERJ3GEY0R00V	1/10W 0	1	
W520	ERJ3GEY0R00V	1/10W 0	1	
N521	ERJ8GEY0R00V	1/4W 0	1	
N523	ERJ6GEY0R00V	1/8W 0	1	
N524	ERJ3GEY0R00V	1/10W 0	1	
W525	ERJ3GEY0R00V	1/10W 0	1	
W526	ERJ3GEY0R00V	1/10W 0	1	
W527	ERJ3GEY0R00V	1/10W 0	1	
W529	ERJ3GEY0R00V	1/10W 0	1	
W530	ERJ6GEY0R00V	1/8W 0	1	
W531	ERJ6GEY0R00V	1/8W 0	1	
W532	ERJ6GEY0R00V	1/8W 0	1	
W533	ERJ6GEY0R00V	1/8W 0	1	
W534	ERJ6GEY0R00V	1/8W 0	1	
W535	ERJ3GEY0R00V	1/10W 0	1	
W536	ERJ3GEY0R00V	1/10W 0	1	
W537	ERJ6GEY0R00V	1/8W 0	1	
W538	ERJ6GEY0R00V	1/8W 0	1	
W539	ERJ6GEY0R00V	1/8W 0	1	
W540	ERJ6GEY0R00V	1/8W 0	1	
W541	ERJ6GEY0R00V	1/8W 0	1	
W542	ERJ6GEY0R00V	1/8W 0	1	
W543	ERJ3GEY0R00V	1/10W 0	1	
W544	ERJ3GEY0R00V	1/10W 0	1	
W545	ERJ6GEY0R00V	1/8W 0	1	
W546	ERJ6GEY0R00V	1/8W 0	1	
W547	ERJ3GEY0R00V	1/10W 0	1	
W548	ERJ3GEY0R00V	1/10W 0	1	
W549	ERJ3GEY0R00V	1/10W 0	1	
W550	ERJ3GEY0R00V	1/10W 0	1	
	VEP70161A	FRONT(L) P.C.B.		(RTL)
2702	FVO44444	OW/TOU - OW/	1	
S7002	EVQ11A04M	SWITCH,POWER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP71110A	POWER SUPPLY P.C.B.		(RTL)
C1120	ECQU2A683MLC	100V 0.068U	1	
C1121	ECQU2A223MLC	100V 0.022U	1	
C1122	ECKWNA102MEV	250V 1000P	1	
C1123	ECKWNA102MEV	250V 1000P	1	
C1125	ECKWNA102MEV	250V 1000P	1	
C1143	F2B2W4700003	450V 47U	1	
C1150	F2A1V6800002	35V 68P	1	
C1151	F1B3D102A011	2V 1000P	1	
C1152	ECJ2VC1H331J	50V 330P	1	
C1153	ECJGVB1H222K	50V 2200P	1	
C1154	ECJGVB1H102K	50V 1000P	1	
C1200	ECJ2VB1E104K	25V 0.1U	1	
C1201	ECJ2VB1E473K	25V 0.047U	1	
C1270	F2A1C1820005	16V 1800P	1	
C1271	F2A1C1820005	16V 1800P	1	
C1272	F2A1C8210008	16V 820P	1	
C1601	F2A1E2210050	25V 220U	1	
C1602	ECJ2VB1E104K	25V 0.1U	1	
C1602	ECJ2VB1E104K	25V 0.1U	1	
C1604	ECJ2FB1C474K	16V 0.47U	1	
C1605	ECJ2VC1H181J	50V 180P	1	
			1	
C1606	ECJGVB1H103K	50V 0.01U		
C1607	F2A1A6810022	10V 680P	1	
C1608	ECJ2VB1E104K	25V 0.1U	1	
C1701	F2A1E2210050	25V 220U	1	
C1702	ECJ1VB1C104K	16V 0.1U	1	
C1703	ECJ1VB1C104K	16V 0.1U	1	
C1704	ECJ1VB1C104K	16V 0.1U	1	
C1705	ECJ1VC1H181J	50V 180P	1	
C1706	ECJ1VB1H103K	50V 0.01U	1	
C1707	F2A0J6810007	6.3V 680P	1	
C1800	F2A1E4700048	25V 47U	1	
D1140	B0EDKT000009	DIODE	1	
D1151	B0HAGM000006	DIODE	1	
D1152	MAZ4100NMF	DIODE	1	
D1155	MAZ73000BC	DIODE	1	
D1156	MA2C165001VT	DIODE	1	
D1157	B0HADV000001	DIODE	1	
D1270	B0JBSG000010	DIODE	1	
D1601	B0JCPD000021	DIODE	1	
D1701	B0JCPD000021	DIODE	1	
D1800	MA2J11100L	DIODE	1	
F1101	K5D202BK0005	FUSE	1	
IC1150	C0DACZH00017	IC	1	
IC1200	C0DAEMB00003	IC	1	
IC1601	C0DBAZZ00132	IC	1	
IC1701	C0DBAZZ00132	IC	1	
IP1601	K5H3022A0013	IC PROTECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1120	G0B233D00001	COIL	1	romano
L1121	G0B233D00001	COIL	1	
L1270	G0A100H00025	COIL 10UH	1	
L1400		COIL 10UH	1	
	G0A100HA0023			
L1601	G0A150ZA0041	COIL 15UH	1	
L1701	G0A220ZA0041	COIL 22UH	1	
LB1126	ERJ6GEY0R00V	1/8W 0	1	
LB1600	J0JHC0000048	FILTER	1	
LB1700	J0JHC0000048	FILTER	1	
P1101	K2AA2H000007	AC INLET	1	
P1102	K1KB23A00004	CONNECTOR(23P)	1	
P1103	K1KA03AA0301	CONNECTOR(3P)	1	
Q1200	B3PBA0000402	PHOTO COUPLER	1	
Q1600	B1DHED000008	TRANSISTOR	1	
Q1700	B1DHDD000022	TRANSISTOR	1	
QR1800	UNR211300L	TRANSISTOR	1	
QR1801	UNR221300L	TRANSISTOR	1	
R1150	ERJ6GEYJ180V	1/8W 18	1	
R1151	ERJ6GEYJ682V	1/8W 6.8K	1	
R1152	ERJ6GEYJ103V	1/8W 10K	1	
R1153	ERJ6GEYJ180V	1/8W 18	1	
R1154	ERJ6GEYG912V	1/8W 9.1K	1	
R1155	ERJ6GEYG752V	1/8W 7.5K	1	
R1156	ERJ6GEYG163V	1/8W 16K	1	
			1	
R1157	ERJ6GEYG511V	1/8W 510		
R1158	ERX2SJR22E	2W 22	1	
R1200	ERJ6GEYG122V	1/8W 1.2K	1	
R1201	ERJ6GEYG822V	1/8W 8.2K	1	
R1205	ERJ6GEYJ224V	1/8W 220K	1	
R1206	ERJ6GEYG242V	1/8W 2.4K	1	
R1207	ERJ6GEYJ103V	1/8W 10K	1	
R1208	ERJ6GEYJ222V	1/8W 2.2K	1	
R1209	ERJ6GEYJ102V	1/8W 1K	1	
R1210	ERJ6GEYJ102V	1/8W 1K	1	
R1601	D1BFR0240001	1/2W 0.024U	1	
R1602	ERJ6GEYJ513V	1/8W 51K	1	
R1603	ERJ6RBD202V	1/10W 2K	1	
R1604	ERJ6RBD822V	1/10W 8.2K	1	
R1605	ERJ6RBD272V	1/10W 2.7K	1	
R1701	D1BFR0240001	1/2W 0.024U	1	
R1702	ERJ3GEYJ513V	1/10W 51K	1	
R1703	ERJ3GEY0R00V	1/10W 0	1	
R1704	ERJ3RBD123V	1/16W 12K	1	
R1705	ERJ3RBD562V	1/16W 5.6K	1	
R1800	ERJ6GEYJ471V	1/8W 470	1	
R1801	ERJ6GEYJ104V	1/8W 100K	1	
R1802	ERJ6GEYJ472V	1/8W 4.7K	1	
R1803	ERJ6GEYJ103V	1/8W 10K	1	
			<u> </u>	
T1150	ETS28BF1W6AD	TRANSFORMER	1	
			<u> </u>	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VA1110	ERZVA5V471	SURGE ABSORBER	1	
ZA1103	EYF52BCY	FUSE HOLDER	1	
			+ -	
ZA1104	EYF52BCY	FUSE HOLDER	1	
	VEP73136A	SD CARD P.C.B.		(RTL)
C6801	ECJ1VB1H103K	50V 0.01U	1	
	F1H1A225A051		1	
C6802	FIRTAZZSAUST	10V 22U	1	
LB6801	J0JHC0000032	COIL	1	
LB6802	J0JHC0000045	COIL	1	
P6801	K1NA09E00075	CONNECTOR(9P)	1	
P6802	K1MY20AA0021	CONNECTOR(20P)	1	
	101111207010021		'	
R6801	ERJ3GEYJ101V	1/10W 100	1	
R6802	ERJ3GEYJ220V	1/10W 22	1	
R6803	ERJ3GEYJ220V	1/10W 22	1	
R6804	ERJ3GEYJ223V	1/10W 22K	1	
R6805	ERJ3GEYJ123V	1/10W 12K	1	
R6807	ERJ3GEYJ223V	1/10W 22K	1	
RX6801	EXB38V220JV	RESISTOR-RESISTOR	1	
RX6802	EXB38V123JV	RESISTOR-RESISTOR	1	
17,0002	LXB30412334	RESISTOR-RESISTOR	•	
	VEP73137A	HDMI P.C.B.		(RTL)
C56001	ECJ0EC1H221J	50V 220P	1	
C56101	ECJ0EB1A104K	10V 0.1U	1	
C56102	ECJ0EB1A104K	10V 0.1U	1	
C56103	ECJ0EB1A104K	10V 0.1U	1	
C56104	ECJ0EB1A104K	10V 0.1U	1	
C56105	ECJ0EB1A104K	10V 0.1U	1	
C56106	ECJ0EB1A104K	10V 0.1U	1	
C56107	ECJ0EB1A104K	10V 0.1U	1	
C56108	ECJ0EB1A104K	10V 0.1U	1	
C56109	ECJ0EB1A104K	10V 0.1U	1	
C56110	ECJ0EB1A104K	10V 0.1U	1	
C56111	ECJ0EB1A104K	10V 0.1U	1	
C56112	ECJ0EB1A104K	10V 0.1U	1	
C56113	ECJ0EB1A104K	10V 0.1U	1	
C56114	ECJ0EB1A104K	10V 0.1U	1	
	ECJ0EB1A104K		1	
C56115	ECJ0EB1A104K	10V 0.1U	1	
C56116		10V 0.1U		
C56117 C56118	ECJ0EB1A104K ECJ0EB1A104K	10V 0.1U 10V 0.1U	1	
C56119	ECJ0EB1A104K	10V 0.1U	1	
C56120	ECJ0EB1A104K	10V 0.1U	1	
C56121	ECJ0EB1A104K	10V 0.1U	1	
C56122	ECJ0EB1A104K	10V 0.1U	1	
C56123	ECJ0EB1A104K	10V 0.1U	1	
	ECJ0EB1A104K	10V 0.1U	1	
C56124	LOUGLD IV 104K	107 0.10		1
C56124	EC INER1A104K	10V 0 1H	1 1	
C56124 C56125 C56126	ECJ0EB1A104K ECJ0EB1A104K	10V 0.1U 10V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C56128	ECJ0EB1A104K	10V 0.1U	1	
C56129	ECJ0EC1H221J	50V 220P	1	
C56130	ECJ1VB0J105K	6.3V 1U	1	
C56131	F1J0J106A014	6.3V 10U	1	
C56132	ECJ0EB1C103K	16V 0.01U	1	
C56133	F1H1A105A028	10V 1U	1	
C56134	F1H1A105A028	10V 1U	1	
C56135	ECJ0EB1A104K	10V 0.1U	1	
C56140	ECJ0EB1A104K	10V 0.1U	1	
D56101	MA2J72800L	DIODE	1	
FL56101	F1H0J1050025	FILTER	1	
FL56102	F1H0J1050025	FILTER	1	
FL56103	F1H0J1050025	FILTER	1	
FL56104	F1H0J1050025	FILTER	1	
FL56105	F1H0J1050025	FILTER	1	
FL56106	F1H0J1050025	FILTER	1	
FL56100	F1H0J1050025	FILTER	1	
1 230110	1 11103 1030023	TIETER	'	
FP56101	K1MN40AA0082	CONNECTOR(40P)	1	
FF30101	K IIVII 40AA0002	CONNECTOR(40F)	 '	
IC56101	C0JBAZ002116	IC	1	
IC56101	C0JBAZ002116	IC	1	
		IC	1	
IC56103	MN864701	IC	1	
IC56104	C0CBCBD00048		-	
IC56105	C0CBCDC00052	IC	1	
IC56107	C0JBAB000604	IC	1	
1 56404	10M AD0000470	COIL	1	
L56101	J0MAB0000170	COIL	1	
L56102	J0MAB0000170	COIL	1	
L56103	J0MAB0000170	COIL	1	
L56104	J0MAB0000170	COIL	1	
. ===			.	
LB56101	J0JHC0000032	COIL	1	
LB56102	J0JHC0000032	COIL	1	
LB56103	J0JHC0000032	COIL	1	
LB56104	J0JCC0000119	COIL	1	
LB56105	J0JCC0000119	COIL	1	
LB56106	J0JCC0000119	COIL	1	
LB56107	J0JCC0000119	COIL	1	
LB56108	J0JHC0000032	COIL	1	
LB56109	J0JHC0000032	COIL	1	
LB56110	J0JHC0000032	COIL	1	
LB56111	J0JHC0000032	COIL	1	
LB56112	J0JHC0000032	COIL	1	
LB56115	J0JHC0000032	COIL	1	
LB56116	J0JHC0000032	COIL	1	
P56101	K1KY10BA0033	CONNECTOR(10P)	1	
P56102	K1FA119E0002	CONNECTOR(119P)	1	
Q56001	2SD1819A0L	TRANSISTOR	1	
Q56002	2SD1819A0L	TRANSISTOR	1	
Q56101	2SD1819A0L	TRANSISTOR	1	
Q56102	B1CFHA000002	TRANSISTOR	1	
Q56103	B1CFHA000002	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q56104	2SD1819A0L	TRANSISTOR	1	
Q56105	2SD1819A0L	TRANSISTOR	1	
R56001	ERJ2GEJ472X	1/16W 4.7K	1	
R56002	ERJ2GEJ473X	1/16W 47K	1	
R56003	ERJ2GEJ225X	1/16W 2200K	1	
R56004	ERJ2GEJ104X	1/16W 100K	1	
R56101	ERJ2GEJ220X	1/16W 22	1	
R56102	ERJ2GEJ330X	1/16W 33	1	
R56103	ERJ2GEJ330X	1/16W 33	1	
R56104	ERJ2GEJ330X	1/16W 33	1	
R56105	ERJ2GEJ330X	1/16W 33	1	
R56106	ERJ2GEJ820X	1/16W 82	1	
R56107	ERJ2GEJ330X	1/16W 33	1	
R56108	ERJ2GEJ330X	1/16W 33	1	
R56109	ERJ2GEJ121X	1/16W 120	1	
R56110	ERJ2GEJ330X	1/16W 33	1	
R56111	ERJ2GEJ330X	1/16W 33	1	
R56112	ERJ2GEJ330X	1/16W 33	1	
R56114	ERJ2GEJ330X	1/16W 33	1	
R56115	ERJ2GEJ820X	1/16W 82	1	
R56116	ERJ2GEJ101X	1/16W 100	1	
R56117	ERJ2GEJ151X	1/16W 150	1	
R56118	ERJ2GEJ820X	1/16W 82	1	
R56119	ERJ2GEJ330X	1/16W 33	1	
R56120	ERJ2GEJ151X	1/16W 150	1	
R56121	ERJ2GEJ151X	1/16W 150	1	
R56122	ERJ2GEJ151X	1/16W 150	1	
R56123	ERJ2GEJ511X	1/16W 510	1	
R56124	ERJ2GEJ103X	1/16W 10K	1	
R56125	ERJ2GEJ202X	1/16W 2K	1	
R56126	ERJ2GEJ202X	1/16W 2K	1	
R56127	ERJ2GEJ103X	1/16W 10K	1	
R56128	ERJ2GEJ202X	1/16W 2K	1	
R56129	ERJ2GEJ202X	1/16W 2K	1	
R56130	ERJ2GEJ273X	1/16W 27K	1	
		1/16W 27K		
R56131	ERJ2GEJ221X		1 1	
R56132	ERJ2GEJ224X	1/16W 220K	1	
R56133	ERJ2GEJ104X	1/16W 100K	1 1	
R56134	ERJ2GEJ470X	1/16W 47	1	
R56135	ERJ2GEJ470X	1/16W 47	1	
R56137	ERJ2GE0R00X	1/16W 0	1	
R56138	ERJ2GE0R00X	1/16W 0	1	
R56139	ERJ2GEJ820X	1/16W 82	1	
R56140	ERJ2GEJ8R2X	1/16W 8.2	1	
R56142	ERJ2GEJ330X	1/16W 33	1	
R56143	ERJ2GEJ330X	1/16W 33	1	
R56144	ERJ2GEJ8R2X	1/16W 8.2	1	
R56145	ERJ2GEJ8R2X	1/16W 8.2	1	
R56146	ERJ2GEJ8R2X	1/16W 8.2	1	
R56147	ERJ2GEJ8R2X	1/16W 8.2	1	
R56148	ERJ2GEJ8R2X	1/16W 8.2	1	
R56149	ERJ2GEJ8R2X	1/16W 8.2	1	
R56150	ERJ2GEJ8R2X	1/16W 8.2	1	
R56151	ERJ2GEJ820X	1/16W 82	1	
R56152	ERJ2GEJ820X	1/16W 82	1	
R56153	ERJ2GEJ820X	1/16W 82	1	

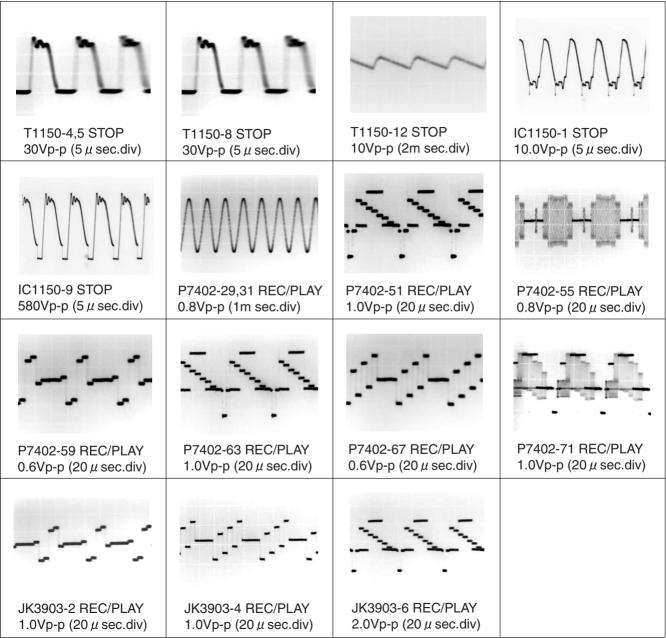
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R56154	ERJ2GEJ820X 1	/16W 82	1	
R56155	ERJ2GEJ820X 1	/16W 82	1	
R56156	ERJ2GEJ820X 1	/16W 82	1	
R56157	ERJ2GEJ820X 1	/16W 82	1	
R56158	ERJ2GEJ152X 1	/16W 1.5K	1	
R56159	ERJ2GEJ332X 1	/16W 3.3K	1	
R56160	ERJ2GEJ223X 1	/16W 22K	1	
R56161	ERJ2GEJ470X 1	/16W 47	1	
RX56101	D1H83304A024 F	RESISTOR-RESISTOR	1	
RX56102	D1H83304A024 F	RESISTOR-RESISTOR	1	
VA56101	D4ED13900002	/ARISTOR	1	
VA56102	D4ED13900002	/ARISTOR	1	
VA56103	EZJZ0V800AA V	/ERIABLE RESISTOR	1	
VA56104	D4ED13900002	/ARISTOR	1	
VA56105	EZJZ0V800AA V	/ERIABLE RESISTOR	1	
VA56106	D4ED13900002	/ARISTOR	1	
VA56107		/ERIABLE RESISTOR	1	
VA56108	D4ED13900002 V	/ARISTOR	1	
VA56109		/ERIABLE RESISTOR	1	
VA56110	D4ED13900002	/ARISTOR	1	
VA56111		/ERIABLE RESISTOR	1	
VA56112		/ARISTOR	1	
VA56113		/ARISTOR	1	
	3.23.00002	, a	•	
	VEP73135A D	OV JACK P.C.B.		(RTL)
_	1 101001			(/
P37001	K1KA06B00181	CONNECTOR(6P)	1	
P37002	K2HZ104B0012	CONNECTOR(104P)	1	
	C	CASING/ACCESSORY/PACKING		
1	VEP70161A F	RONT(L) P.C.B.	1	(RTL)
2	VEP73135A	OV JACK P.C.B.	1	(RTL)
<u>3</u>	RFKB79119MT	IAIN P.C.B.	1	EE
3	RFKB79119NT N	IAIN P.C.B.	1	GC,GCS,GN
<u>5</u>	RGR0365C-D1 F	REAR PANEL	1	FF
	DCD0265C C4	DEAD DANIEL		EE
5	RGR0365C-G1	REAR PANEL	1	GC
5	RGR0365C-F1	REAR PANEL	1	GCS
5	RGR0365C-E1	REAR PANEL	1	
		CDEW	20	GN
6		CREW	20	
7		SCREW	16	
8		DIGITAL ANGLE A	1	 EE
9		RAM/DIGITAL P.C.B. MODULE	1	EE
9		RAM/DIGITAL P.C.B. MODULE	1	GC
9		RAM/DIGITAL P.C.B. MODULE	1	GCS
9		RAM/DIGITAL P.C.B. MODULE	1	GN
<u>10</u>		IEAT TRANSFER SHEET	1	
<u>11</u>		AN MOTOR	1	
<u>12</u>		OOT RUBBER	4	
<u>13</u>		PLATE SPRING	1	
<u>14</u>	RMY0357 F	HEAT SINK	1	
15	RHD32001 S	SCREW	4	
16	VKC0295	IYLON RIVET	2	I

IV TROUBOU HTIEURINITEI

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>17</u>	RMQ1514	HEAT TRANSFER SHEET D	1	
<u>18</u>	RYP1320A-S	FRONT PANEL ASS'Y 1	1	EE
18	RYP1320C-S	FRONT PANEL ASS'Y 1	1	GC,GCS
18	RYP1320B-S	FRONT PANEL ASS'Y 1	1	GN
<u>18-1</u>	RGK1968C-Q	FL ORNAMENT	1	
18-2	RGK1971A-S	REC BUTTON RING	1	
18-3	RYF0798K-S	PANEL DOOR ASS'Y	1	
18-4	RKF0751C-K	TRAY DOOR	1	
18- <u>5</u>	VMB3410	BLINDER SPRING	1	
18-6	RHD26045	SCREW	2	
18-7	RKF0754-K	SD BLINDER	1	
18-8	RMB0841-1	SD LID SPRING	1	
<u>18-9</u>	RMR1767-K	SD CHASSIS	1	
19	RHD30113	SCREW	2	
20	RFKV0071HDK	HDD 250GB	1	
<u>21</u>	RKM0552A-S	TOP CASE	1	
22	RMN0841	HDD BRACKET	1	
23	RMC0625	TUNER END	2	
24	RKA0184-K	LEG SHEET	1	
<u>25</u>	VEK0J99	HDD POWER CABLE	1	
<u> 26</u>	VEP73137A	HDMI P.C.B.	1	(RTL)
28	VEP71110A	POWER SUPPLY P.C.B.	1	(RTL)
<u>29</u>	VEP07A91D	TUNER P.C.B.	1	(RTL)
30	XSN3+4FJ	SCREW	2	
<u>31</u>	RMQ1551	GASKET A	1	
<u>32</u>	VMX1336	MINI CARD SPACER	1	
33	VEK0K02	FFC(40P)	1	
34	VEP73136A	SD CARD P.C.B.	1	(RTL)
36	VEK0K01	FFC(20P)	1	
37	N5EZZ0000003	HDD CONNECTOR	1	
39	RMR1766-K	SD CARD HOLDER ASS'Y	1	
40	XTN2+8GFJ	SCREW	2	
4 <u>1</u>	RMV0312	SHEET COVER	1	
<u></u> 14	VEK0K15	FFC(40P)	1	
<u></u> 46	VMC1534	EARTH SPRING	2	
47	XYN3+J8FJ	SCREW	2	
••	74110-0010	CONLIN	<u> </u>	
<u>A1</u>	EUR7659YC0	REMOTE CONTROL ASS'Y	1	EE
<u> </u>	EUR7659YE0	REMOTE CONTROL ASS'Y	1	GC,GCS
A1	EUR7659YD0	REMOTE CONTROL ASS'Y	1	GN
<u> </u>	UR76EC5903A	BATTERY COVER	1	
A2	K2CR2DA00004	AC CORD	1	EE CC CCS
A2	K2CT3CA00004	AC CORD	1	EE,GC,GCS
A2	K2CJ2DA00008	AC CORD	1	GC
<u>A3</u>	K2KA6BA00003	AV CORD	1	JI
<u>A4</u>	K1TWACC00001	RF COAXIAL CABLE	2	
<u>46</u>	RQCA1497	SET-UP GUIDE	1	GN
<u>48</u>	RPQF0254	ACCESSORY BOX	1	
<u>A9</u>	RPFC0031-B	POLYETHYLENE BAG	1	
<u>49</u> <u>A10</u>	RQT8380-L	OPERATING INSTRUCTIONS	1	
A10 A10	RQT8381-K	OPERATING INSTRUCTIONS	1	(IA)GC,GCS,GN
				(IB)GCS
A10	RQT8382-A	OPERATING INSTRUCTIONS	1	(IC)GC
A10	RQT8459-R	OPERATING INSTRUCTIONS	1	(ID)EE
A10	RQT8460-Z	OPERATING INSTRUCTIONS	1	(IE)EE

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>A11</u>	RQCC2704	DVD MEDIA SHEET	1	EE
A11	RQCC2705	DVD MEDIA SHEET	1	GC,GCS,GN
PC1	RPG7869	PACKING CASE	1	EE
PC1	RPG7872	PACKING CASE	1	GC
PC1	RPG7871	PACKING CASE	1	GCS
PC1	RPG7870	PACKING CASE	1	GN
PC2	RPN1859A-2	CUSHION (A)	1	
PC3	RPN1859B-2	CHSHION (B)	1	
PC4	RPFC0026-B	POLYETHYLENE BAG	1	
PC5	RPNC0138	CUSHION(C)	1	

17. Schematic Diagram for printing with A4



Ref No.		Q7802										
MODE	Е	С	В									
REC	3.8	1.2	3.1									
PLAY	3.8	1.2	3.1									
STOP	3.8	1.2	3.1									

Ref No.					IC1150							IC1200								
MODE	1	2	3	4	5	6	7	8	9		1	2	3							
REC	3.0	1.5	0	11.6	0		310		-1523		8.3	2.5	0							
PLAY	3.0	1.5	0	11.6	0		310		-1523		8.3	2.5	0							
STOP	3.0	1.5	0	11.6	0	-	310	-	-1538		8.3	2.5	0							
Ref No.				IC1	601									IC1	701					
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
REC	12.3	4.5	1.2	1.3	0.8	0	7.6	12.3			12.4	4.5	1.2	1.3	0	0	8.5	12.4		
PLAY	12.3	4.5	1.2	1.3	0.8	0	7.6	12.3			12.4	4.5	1.2	1.3	0	0	8.5	12.4		
STOP	12.3	4.5	1.2	1.3	0.8	0	7.6	12.3			12.4	4.5	1.2	1.3	1.2	0	8.5	12.4		
Ref No.		Q12	200						Q10	600							Q1	706		
MODE	1	2	3	4		1	2	3	4	5	6	7	8		1	2	3	4	5	6
REC	9.3	8.3	0	1.5		12.3	12.3	12.3	7.6	6.1	6.1	6.1	6.1		4.1	4.1	8.5	12.4	4.1	4.1
PLAY	9.3	8.3	0	1.5		12.3	12.3	12.3	7.6	6.1	6.1	6.1	6.1		4.1	4.1	8.5	12.4	4.1	4.1
STOP	9.3	8.3	0	1.5		12.3	12.3	12.3	7.6	6.1	6.1	6.1	6.1		4.1	4.1	8.5	12.4	4.1	4.1
Ref No.		QR1800				QR1801														
MODE	Е	С	В		Е	С	В													
REC	11.9	0	12.3		0	4.5	0													
PLAY	11.9	0	12.3		0	4.5	0													
STOP	11.9	0	12.3	Ť	0	4.5	0		,			·	,			, and the second	,	, and the second	, and the second	

Ref No.										P59	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0
PLAY	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0
STOP	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0
Ref No.										P59	001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.1	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-
PLAY	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.1	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-
STOP	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.2	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-
Ref No.										P59	001									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.5	3.2	0	1.7	0	0	0	3.3	0	3.3	1.1	-	0	0.3	1.5	3.3	0	-	1.0	4.8
PLAY	2.5	3.2	0	1.7	0	0	0	3.3	0	3.3	1.1	-	0	0.3	1.5	3.3	0	-	1.0	4.8
STOP	2.5	3.2	0	1.7	0	0	0	3.3	0	3.3	1.1	-	0	0.3	1.5	3.3	0	-	1.0	4.8
Ref No.										P59	001									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	4.8	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	-
PLAY	0	4.8	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	-
STOP	0	4.8	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	-
Ref No.										P59	001									
MODE	81	82	83	84	85	86	87	88												
REC	0	0	0	0.3	0	0	0	0												, and the second
PLAY	0	0	0	0.3	0	0	0	0												
STOP	0	0	0	0.3	0	0	0	0												

Ref No.				Q1:	501								Q1	509						
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	5.2	5.2	5.2	0.6	5.1	5.1	5.1	5.1		12.4	12.4	12.4	6.2	12.3	12.3	12.3	12.3			
PLAY	5.2	5.2	5.2	0.6	5.1	5.1	5.1	5.1		12.4	12.4	12.4	6.2	12.3	12.3	12.3	12.3			
STOP	5.2	5.2	5.2	0.6	5.1	5.1	5.1	5.1		12.4	12.4	12.4	6.2	12.3	12.3	12.3	12.3			
Ref No.		Q4006				Q4007				Q4008				Q4009				Q7401		
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	0	0	-0.1		0	0	-0.1		0	0	-0.1		0	0	-0.1		0	11.6	0	
PLAY	0	0	-0.1		0	0	-0.1		0	0	-0.1		0	0	-0.1		0	11.6	0	
STOP	0	0	-0.1		0	0	-0.1		0	0	-0.1		0	0	-0.1		0	11.6	0	
Ref No.		Q7402				Q7501				Q7502				Q7503				Q7504		
MODE	Е	С	В		Е	С	В		E	С	В		E	С	В		E	С	В	
REC	0	0	4.9		2.7	0	2.1		2.0	5.0	1.6		2.7	0	2.1		2.0	5.0	1.6	
PLAY	0	0	4.9		2.7	0	2.1		2.0	5.0	1.6		2.7	0	2.1		2.0	5.0	1.6	
STOP	0	0	4.9		2.7	0	2.1		2.0	5.0	1.6		2.7	0	2.1		2.0	5.0	1.6	
Ref No.		Q7505				Q7506				Q7507				Q7508				Q7509		
MODE	Е	С	В		E	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	-18.1	5.0	-18.0		0	5.0	0		0	0	4.6		0	4.6	0		4.9	3.3	3.3	
PLAY	-18.1	5.0	-18.0		0	5.0	0		0	0	4.6		0	4.6	0		4.9	3.3	3.3	
STOP	-18.1	5.0	-18.0		0	5.0	0		0	0	5.1		0	5.1	0.1		4.9	3.3	3.3	
Ref No.		Q7510				Q7511														
MODE	Е	С	В		Е	С	В													
REC	0	9.2	-0.2		5.1	12.3	5.5													
PLAY	0	9.2	-0.1		5.1	12.3	5.5													
STOP	0	9.2	-0.2		5.1	12.3	5.5													
Ref No.		QR1501				QR1503				QR4002				QR4003	3			QR4004	ļ	
MODE	Е	С	В		Е	С	В		Е	С	В		Е	С	В		Е	С	В	
REC	0	0	4.9		0	0	4.9		5.1	-0.1	5.1		0	0	2.3		0	5.1	0	
PLAY	0	0	4.9		0	0	4.9		5.1	-0.1	5.1		0	0	2.3		0	5.1	0	
STOP	0	0	4.9		0	0	4.9		5.1	-0.1	5.1		0	0	2.3		0	5.1	0	
Ref No.		QR7401				QR7402				QR7403				QR7404						
MODE	E	С	В		Е	С	В		Е	С	В		Е	С	В					
REC	0	4.2	0		38.1	38.0	0		0	0	4.9		0	0	0					
PLAY	0	4.2	0		38.1	38.0	0		0	0	4.9		0	0	0					
STOP	0	4.2	0		38.1	38.0	0		0	0	4.9		0	0	0					
Ref No.		QR7507				QR7508														
MODE	Е	С	В		E	С	В													
REC	0	0	4.9		0	-0.2	0													
PLAY	0	0	4.9		0	-0.1	0													
STOP	0	0	4.9		0	-0.2	0													

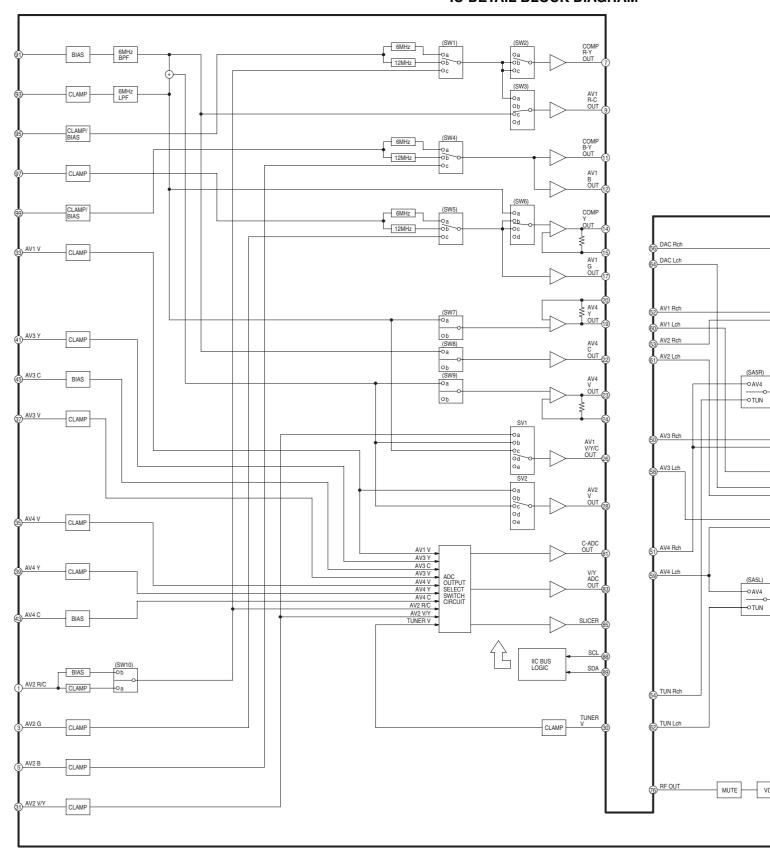
Ref No.				IC4	009							IC4011								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC PLAY	5.8 5.8	5.8 5.8	5.8 5.8	0	5.8 5.8	5.8 5.8	5.8 5.8	11.6 11.6		3.4	0	4.8	6.1 6.1	5.0 5.0						
STOP	5.8	5.8	5.8	0	5.8	5.8	5.8	11.6		3.4	0	4.8	6.1	5.0						
Ref No.					012						IC4901									
MODE REC	1 5.8	2 5.8	3 5.8	0	5 5.8	6 5.8	7 5.8	8 11.6		1.7	5.0	0								
PLAY	5.8	5.8	5.8	0	5.8	5.8	5.8	11.6		1.7	5.0	0								
STOP	5.8	5.8	5.8	0	5.8	5.8	5.8	11.6		1.7	5.0	0								
Ref No. MODE	1	2	3	4	5	6	7	8	9	1C7	301 11	12	13	14	15	16	17	18	19	20
REC	2.4	2.4	2.4	0	0	2.4	0	2.4	0	2.4	0	-	0	2.9	2.6	0	0	2.8	0	0
PLAY	2.4	2.4	2.4	0	0	2.4	0	2.4	0	2.4	0	-	0	2.9	2.6	0	0	2.8	0	0
STOP Ref No.	2.4	2.4	2.4	0	0	2.4	0	2.4	0	2.4 IC7	0	-	0	2.9	2.6	0	0	2.8	0	0
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-	1.5	2.4	1.4	0	5.0	5.0	5.0	2.9	2.4	2.4	2.5	2.5	0	-	2.4	-	-
PLAY	2.3	0	-	1.5	2.4	1.4	0	5.0	5.0	5.0	2.9	2.4	2.4	2.5	2.5	0	-	2.4	-	-
STOP Ref No.	2.3	0 IC7	301	1.5	2.4	1.4	0	5.0	5.0	5.0	2.9	2.4	2.4	2.5	2.5	0	-	2.4	-	-
MODE	41	42	43	44																
REC	2.4	-	-	0																
PLAY STOP	2.4	-	-	0																\vdash
Ref No.	ſ	IC7302		Ü			IC7401						IC7402							
MODE	1	2	3		1	2	3	4	5		1	2	3	4	5					
REC PLAY	5.0 5.0	0	4.9		12.4 12.4	4.2	11.6 11.6	2.6	0		6.1	0	6.1 6.1	-	5.1 5.1		 	 		$\vdash \vdash \vdash$
STOP	5.0	0	4.9		12.4	4.2	11.6	2.6	0		6.1	0	6.1	-	5.1					
Ref No.					403									404						
MODE REC	5.0	2	3.4	0	5 4.2	-	7	8 6.1		0	0	0	0	5 3.2	6 3.2	7	3.3			
PLAY	5.0	-	3.4	0	4.2	-	-	6.1		0	0	0	0	3.2	3.2	0	3.3			
STOP	5.0	-	3.4	0	4.2	-	-	6.1		0	0	0	0	3.2	3.2	0	3.3			
Ref No. MODE	1	2	3	4	5	6	7	8	9	IC7 10	501 11	12	13	14	15	16	17	18	19	20
REC	0.3	-	4.9	3.8	0.8	0.8	4.4	0	0	2.1	1.2	4.9	1.4	0	2.1	3.3	4.9	3.3	3.2	3.3
PLAY	0.3	-	4.9	3.8	0.8	0.8	4.4	0	0	0.7	1.2	4.9	1.4	0	2.1	3.3	4.9	3.3	3.2	3.3
STOP Ref No.	0.3	-	4.9	4.5	0.9	0.9	4.4	0	0	0.7 IC7	1.2	4.9	1.4	0	2.1	3.3	4.9	3.3	3.2	3.3
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.1	-	3.2	0	-	-	-	-	4.8	4.6	3.3	3.3	0	4.8	3.3	3.2	3.3	-	0	4.9
PLAY STOP	3.1	-	3.2	0	-	-	-	-	4.8 4.8	4.6 4.6	3.3	3.3	0	4.8	3.3	3.2	3.3	-	0	4.9 4.9
Ref No.	3.1		3.2	U					4.0		501	3.3	U	4.0	3.3	3.2	3.3		U	4.5
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC PLAY	0	4.9	4.9	4.8 4.8	0	4.9	5.0 5.0	5.0 5.0	4.9 4.9	0	4.9	-	0	4.8	0	0	0	0	-	5.0 5.0
STOP	4.9	4.9	4.9	4.8	0	4.9	5.0	5.0	4.9	0	4.9	-	0	4.8	0	0	0	0	-	5.0
Ref No.										IC7	_									•
MODE REC	61 0	62 5.0	63 0	64 0	65 4.9	66 -	67	- 68	69 -	70	71	72	73 4.9	74 0	75 5.0	76 0	77	78 0	79 0	80
PLAY	0	5.0	0	0	4.9	-	-	-	-	-	-	-	4.9	0	5.0	0		0	0	-
STOP	0	5.0	0	0	4.9	-	-	-	-	-	-	-	4.9	0	5.0	0	-	0	0	-
Ref No. MODE	81	82	83	84	85	86	87	88	89	IC7 90	501 91	92	93	94	95	96	97	98	99	100
REC	3.3	0	0	4.7	3.2	5.0	5.0	5.0	2.0	5.0	0	0	2.5	1.2	1.6	0	0	2.0	5.0	0
PLAY	3.3	0	0	4.7	3.2	5.0	5.0	5.0	2.0	5.0	0	0	2.5	1.2	1.6	0	0	2.0	5.0	0
STOP Ref No.	3.3	0	0 IC7502	4.7	0	5.0	5.0	5.0	2.0	5.0	0	0	2.5	1.2	1.6	0	0	2.0	5.0	0
MODE MODE	1	2	3	4	5															
REC	0	0	-	4.9	5.0															
PLAY STOP	0	0	-	4.9 4.9	5.0 5.0															
Ref No.	J	J		ਚ.ਹ	5.0					IC7	504	<u> </u>			<u> </u>	<u> </u>	<u> </u>			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC PLAY	-	-	0	0	2.2	2.2	5.0 5.0	4.9 4.9	4.4	2.5	-18.1 -18.1	-21.1 -17.6	-21.1 -17.6	-	-21.8 -21.8	-21.1 -17.6	-	-17.6 -21.1	-17.6 -21.1	-18.1 -18.1
STOP	-	-	0	0	2.2	2.2	5.0	4.9	4.4	0.8	-18.1	-21.1	-21.1	-	-21.8	-21.1	-	-17.6	-17.6	-18.1
Ref No.										_	504									
MODE REC	-17.6	-14.2	-18.1	-14.2	25 -21.0	26 -17.7	-21.0	-10.8	29 -17.7	-17.6	-17.6	-17.6	33 -17.7	34 -17.6	35 -17.7	36 -17.9	37 -17.9	38	39	40
PLAY	-17.6	-0.6	-18.1	-4.0	-14.3	-17.7	-10.8	-4.0	-17.7	-10.8	-21.1	-21.1	-17.7	-21.4	-17.7	-4.4	-4.4	H	-	-
STOP	-17.6	-14.2	-18.1	-14.2	-21.0	-17.7	-21.0	-10.8	-17.7	-17.6	-17.6	-17.6	-17.7	-17.6	-17.7	-17.9	-17.9	-	-	-
Ref No.	4 1	2	IC7505	, I	F		4	2	3	_	507	e	7	8			<u> </u>	-		\vdash
MODE REC	1 4.9	5.1	3 0	-	5		5.7	1.3	1.3	4 0	5 0.2	6 0.3	11.2	12.3			 	1		\vdash
PLAY	4.9	5.1	0	-	-		5.7	1.3	1.3	0	0.2	0.3	11.2	12.3						
STOP	4.9	5.1	0	-	-		5.7	1.3	1.3	0	0.3	0.2	11.2	12.3						

Ref No.			IC1505						IC1506											
MODE	1	2	3	4	5		1	2	3	4	5									
REC	4.1	0	4.9	-	3.3		4.8	6.1	0	5.2	5.2									
PLAY	4.1	0	4.9	-	3.3		4.8	6.1	0	5.2	5.2									
STOP	4.1	0	4.9	-	3.3		4.8	6.1	0	5.2	5.2									
Ref No.				IC1	507							IC1510						IC1520		
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	5.1	-	3.4	0	6.1	-	-	6.1		6.1	4.9	5.0	-	0		6.1	0	4.8	-	5.1
PLAY	5.1	-	3.4	0	6.1	-	-	6.1		6.1	4.9	5.0	-	0		6.1	0	4.8	-	5.1
STOP	5.1	-	3.4	0	6.1	-	-	6.1		6.1	4.9	5.0	-	0		6.1	0	4.8	-	5.1
Ref No.				IC1	521							IC1522								
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC	3.3	-	2.0	0	4.8	-	-	4.1		-	0	0	5.0	5.1						
PLAY	3.3	-	2.0	0	4.8	-	-	4.1			0	0	5.0	5.1						
STOP	3.3	-	2.0	0	4.8	-	-	4.1			0	0	5.0	5.1						
Ref No.										IC3	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	2.5	1.6	0	1.6	5.0	1.6	5.0	0.4	0.3	1.6	0.4	-	1.7	1.7	1.6	0.4	0	1.7	1.7
PLAY	2.0	2.5	1.6	0	1.6	5.0	1.6	5.0	0.4	0.3	1.6	0.4	-	1.7	1.7	1.6	0.4	0	1.7	1.7
STOP	2.0	2.5	1.6	0	1.6	5.0	1.6	5.0	0.4	1.6	1.6	0.4	-	1.7	1.7	1.6	0.4	0	1.7	1.7
Ref No.										IC3	001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	1.7	1.7	1.7	5.0	1.4	0.1	1.4	0	2.1	1.6	0	1.6	0	2.1	-	1.6	-	1.6	5.0
PLAY	0	1.7	1.7	1.7	5.0	1.4	0.1	1.4	0	2.1	1.6	0	1.6	0	2.1	-	1.6	-	1.6	5.0
STOP	0	1.7	1.6	1.7	5.0	1.4	0.2	1.4	0	2.1	1.6	0	1.6	0	2.1	-	1.6	-	1.6	5.0
Ref No.											001									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	1.6	5.1	2.0	0	2.0	11.6	1.6	2.0	4.5	4.4	4.4	4.0	4.5	4.5	-	4.5	9.1	4.4	4.4	4.5
PLAY	1.6	5.1	2.0	0	2.0	11.6	1.6	2.0	4.5	4.4	4.4	4.0	4.5	4.5	-	4.5	9.1	4.4	4.4	4.5
STOP	1.6	5.1	2.0	0	2.0	11.6	1.6	2.0	4.5	4.5	4.0	4.5	4.5	4.4	-	3.9	9.1	4.0	4.3	3.7
Ref No.										IC3										
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.5	4.5	-	4.5	9.0	0	0	0	0	0	4.5	4.5	4.5	4.5	0	-	9.5	4.5	4.5	0
PLAY	4.5	4.5	-	4.5	9.0	0	0	0	0	0	4.5	4.5	4.5	4.5	0	-	9.5	4.5	4.5	0
STOP	3.7	3.7	-	3.8	9.0	0	0	0	0	0	4.5	4.5	4.5	4.5	0	-	0.3	4.5	4.5	0
Ref No.										IC3										
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	2.1	5.0	1.5	5.1	2.1	4.5	3.6	4.8	4.6	5.0	2.0	2.8	2.1	5.1	2.0	0	2.1	0	2.0	2.5
PLAY	2.1	5.0	1.5	5.1	2.1	4.5	3.6	4.8	4.6	5.0	2.0	2.8	2.1	5.1	2.0	0	2.1	0	2.0	2.5
STOP	4.7	5.0	1.5	5.1	2.1	4.5	3.6	4.8	4.6	5.1	5.0	2.8	2.1	5.1	2.0	0	2.1	0	2.0	2.5
_																<u></u>		<u></u>	<u></u>	

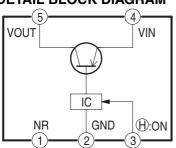
Ref No.										IC56	6101									
MODE REC	0	2	3 1.6	1.2	5	6	7 1.6	8	9 1.2	10 0	11	12	13	14 0	15	16	17 1.6	18	19	20
PLAY	0	1.5 1.5	1.6	1.2	1.6 1.6	0	1.6	0	1.2	0	1.3	0	1.6 1.6	0	1.6 1.6	1.3	1.6	1.5 1.5	0	3.3
STOP	0	1.5	1.6	1.2	1.6	0	1.6	0	1.2	0	1.3	0	1.6	0	1.6	1.3	1.6	1.5	0	3.3
Ref No.	4	0	0		-		-	_	_	IC56		40	40		- 45	40	47	40	40	00
MODE REC	0	0.7	3 1.5	1.2	5 1.0	6 0.9	7 1.2	8 0.7	9 1.7	10 0	11 1.6	12 0.7	13 1.1	14 0.9	15 0.9	16 1.5	17 1.1	18 0	19 0	3.3
PLAY	0	0.7	1.5	1.2	1.0	0.9	1.2	0.7	1.7	0	1.6	0.7	1.1	0.9	0.9	1.5	1.1	0	0	3.3
STOP	0	0.7	1.5	1.2	1.0	0.9	1.2	0.7	1.7	0	1.6	0.7	1.1	0.9	0.9	1.5	1.1	0	0	3.3
Ref No. MODE	1	2	3	4	5	6	7	8	9	1C56	11	12	13	14	15	16	17	18	19	20
REC	1.6	1.2	0	0	1.2	0	1.6	0	0	0	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
PLAY	1.6	1.2	0	0	1.2	0	1.6	0	0	0	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
STOP Ref No.	1.6	1.2	0	0	1.2	0	1.6	0	0	0 IC56	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	0	0	0	0	0	0	3.2	1.5	0	0	-	-	0	0	0	-	0	0	0
PLAY	3.3	0	0	0	0	0	0	3.2	1.5	0	0	-	-	0	0	0	-	0	0	0
STOP Ref No.	3.3	0	0	0	0	0	0	3.2	1.5	0 IC56	0	-	-	0	0	0		0	0	0
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	3.3	0	3.3	3.3	3.3	1.5	0	3.3	3.3	1.5	1.5	3.3	3.3	0	3.3	0	-	-
PLAY STOP	0	0	3.3	0	3.3	3.3	3.3	1.5 1.5	0	3.3	3.3	1.5 1.5	1.5 1.5	3.3	3.3	0	3.3	0	-	-
Ref No.	U	U	٥.٥	U	5.5	ა.ა	ა.ა	1.5	U	IC56		1.5	1.5	٥.٥	٥.٥	U	٥.٥	U		
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC PLAY	0	3.3	-	-	3.3	0	3.3	1.2	1.2	0	3.3	0	0	0	3.3	0	0	0	3.3	0
STOP	0	3.3	-	-	3.3	0	3.3	1.2	1.2	0	3.3	0	0	0	3.3	0	0	0	3.3	0
Ref No.										IC56										•
MODE \	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC PLAY	0	0	0	-	-	-	3.3	-	-	-	0	1.5 1.5	-	-	-	3.3	-	-	-	0
STOP	0	0	0	-	-	-	3.3	-	-	-	0	1.5	-	-	-	3.3	-	-	-	0
Ref No.	404	100	400	404	405	400	407	100	400	IC56		440	440	444	445	440	447	440	440	400
MODE REC	101	102	103	104	105	106	107	108	109	110	111	112 3.3	113 1.5	114	115	116	117 0	118	119	120
PLAY	-	-	-	-	-	-	-	0	-	-	-	3.3	1.5	-	-	-	0	-	-	-
STOP	-	-	-	-	-	-	-	0	-	-	-	3.3	1.5	-	-	-	0	-	-	-
Ref No. MODE	121	122	123	124	125	126	127	128	129	1C56	131	132	133	134	135	136	137	138	139	140
REC	3.3	-	-	-	0	-	0	0	0	0	1.5	0	1.5	0	0	0	0	3.3	0	0
PLAY	3.3	-	-	-	0	-	0	0	0	0	1.5	0	1.5	0	0	0	0	3.3	0	0
STOP Ref No.	3.3	-	-	-	0	-	0	0	0	0 IC56	1.5 3103	0	1.5	0	0	0	0	3.3	0	0
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
REC	0	0	0	0	0	0	0	0	0	0	3.3	1.5	1.5	0.9	1.2	1.6	0	0.7	0.9	1.0
PLAY STOP	0	0	0	0	0	0	0	0	0	0	3.3	1.5 1.5	1.5 1.5	0.9	1.2	1.6 1.6	0	0.7	0.9	1.0
Ref No.		J		<u> </u>						IC56			1.0	0.0		1.0		J.1	0.0	1.0
MODE	161	162	163	164																
REC PLAY	0.9	1.5 1.5	1.6 1.6	1.6 1.6											 	-	-	-	-	\vdash
STOP	0.9	1.5	1.6	1.6																
Ref No.				IC56	3104							IC56105						IC56107		
MODE REC	3.3	0	1.3	4 0	5 4.8	6 0	7	3.9		1 5.7	2 0	3 4.8	4 0	5 5.0		0	1.6	0	4 1.5	5 3.3
PLAY	3.3	0	1.3	0	4.8	0	0	3.9		5.7	0	4.8	0	5.0		0	1.6	0	1.5	3.3
STOP	3.3	0	1.3	0	4.8	0	0	3.9		5.7	0	4.8	0	5.0		0	1.6	0	1.5	3.3
Ref No. MODE	Е	Q56001 C	В		Е	Q56002 C	В		Е	Q56101 C	В		1	Q56102 2	3		1	Q56103	3	1
REC	0	4.9	0		0	0	0.6		0	3.7	0		3.3	5.0	3.3	 	3.3	5.0	3.3	\vdash
PLAY	0	4.9	0		0	0	0.6		0	3.7	0		3.3	5.0	3.3		3.3	5.0	3.3	
STOP	0	4.9	0		0	0 OB56106	0.6		0	3.7	0		3.3	5.0	3.3		3.3	5.0	3.3	lacksquare
Def No		QR56104	В		Е	QR56105 C	В							\vdash		1	1	1	1	1
Ref No.	F																			
Ref No. MODE REC	3.7	3.5	3.7		0	3.5	0													
MODE							0 0 0													

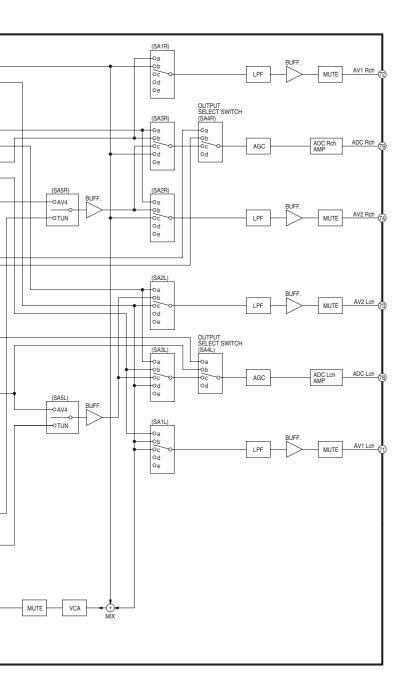


IC3001 VIDEO/AUDIO PROCESSOR IC-DETAIL BLOCK DIAGRAM



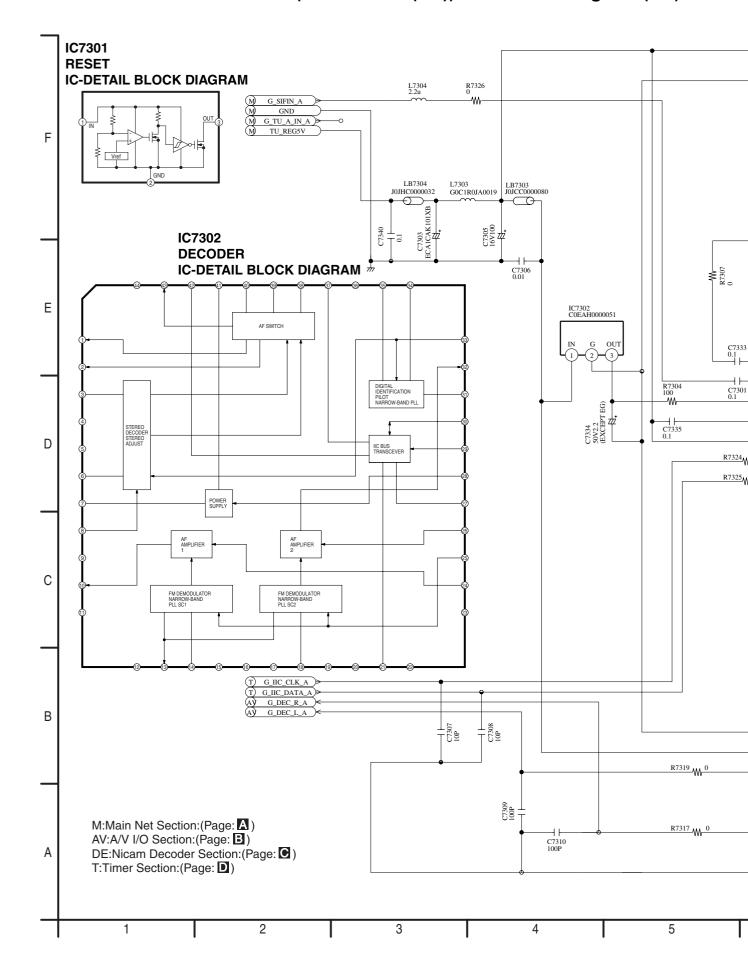
IC4011 AU +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

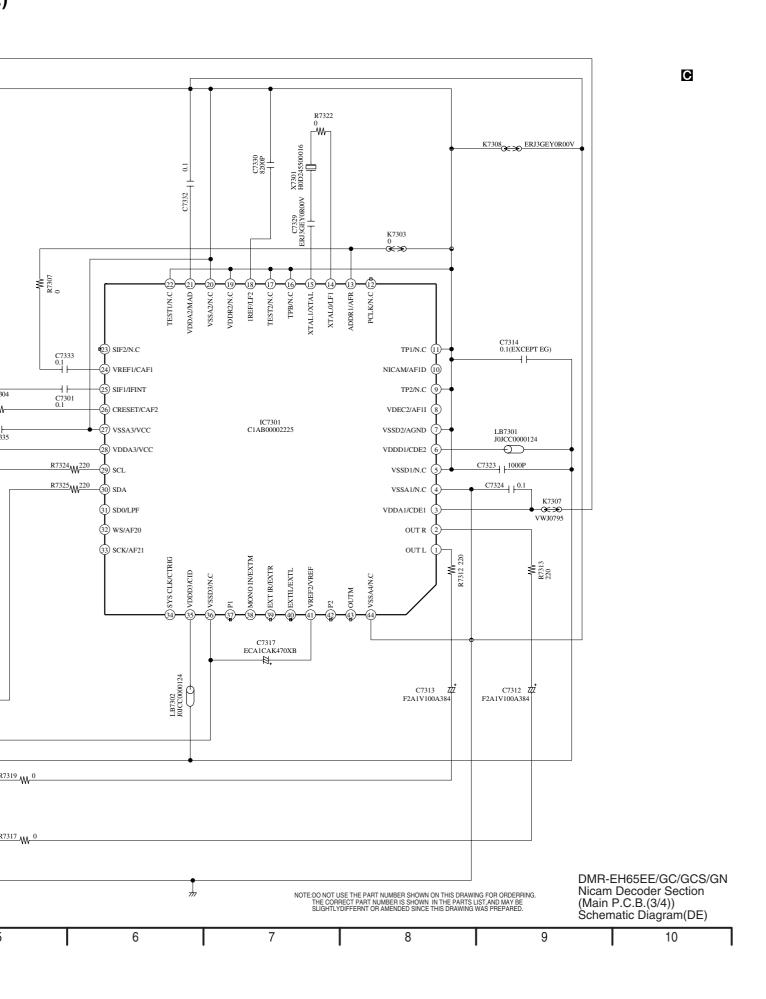




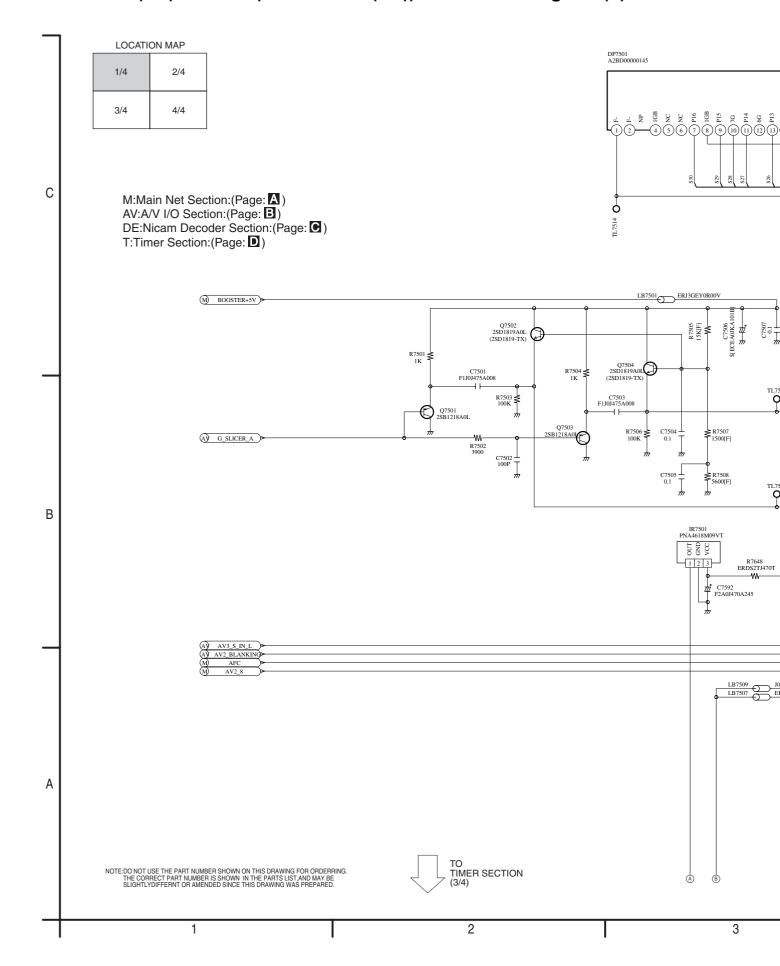
IC3001 Detail Block Diagram IC4011 Detail Block Diagram DMR-EH65EE/GC/GCS/GN IC-Detail Block Diagram

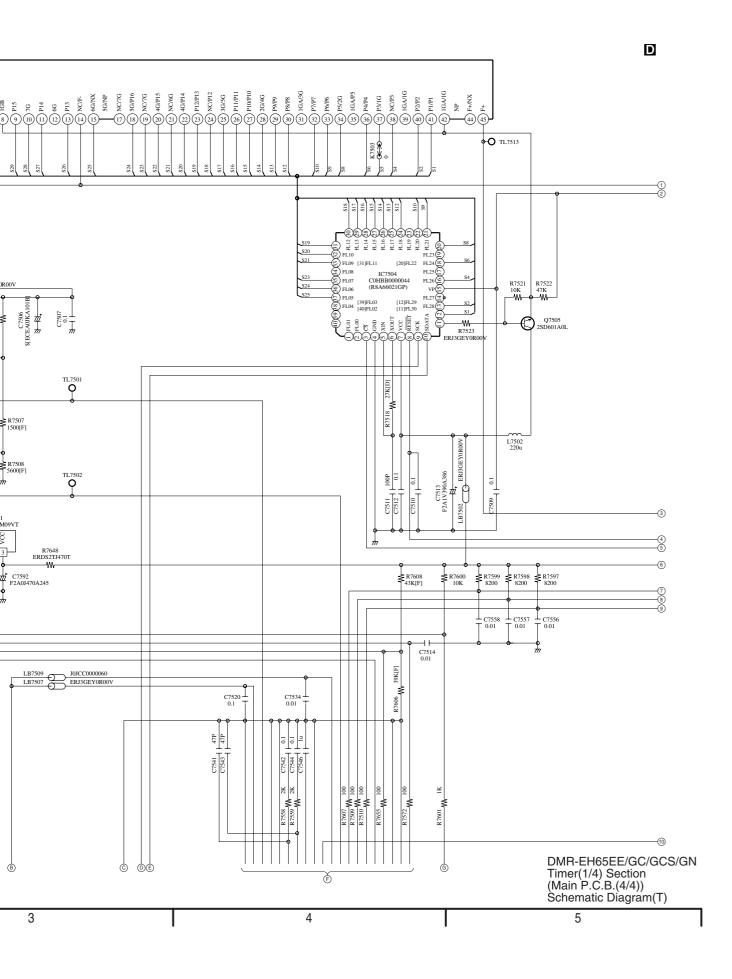
13.11. Nicam Decoder Section (Main P.C.B. (3/4)) Schematic Diagram (DE)



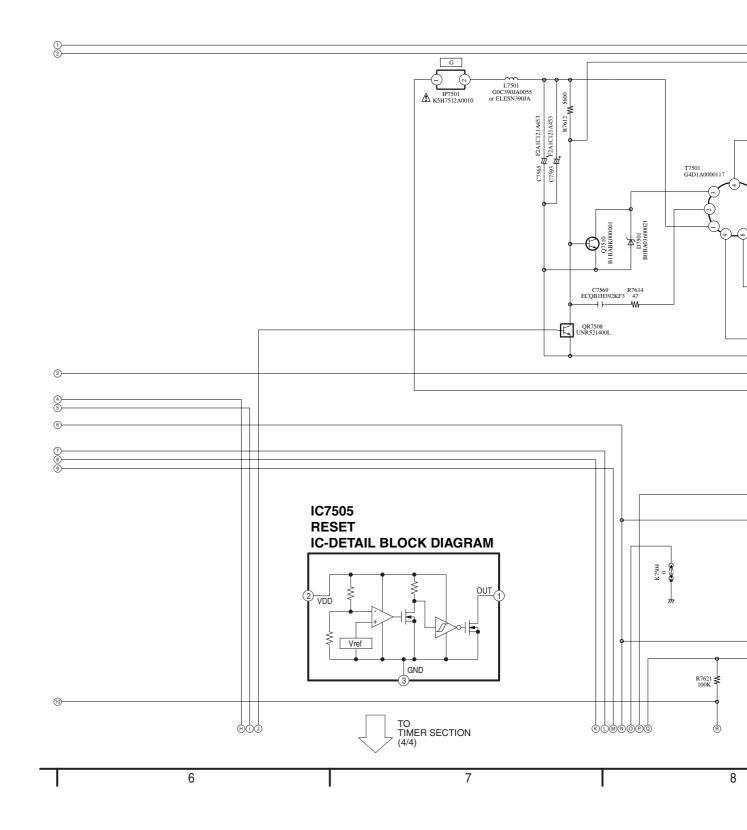


13.12. Timer (1/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)

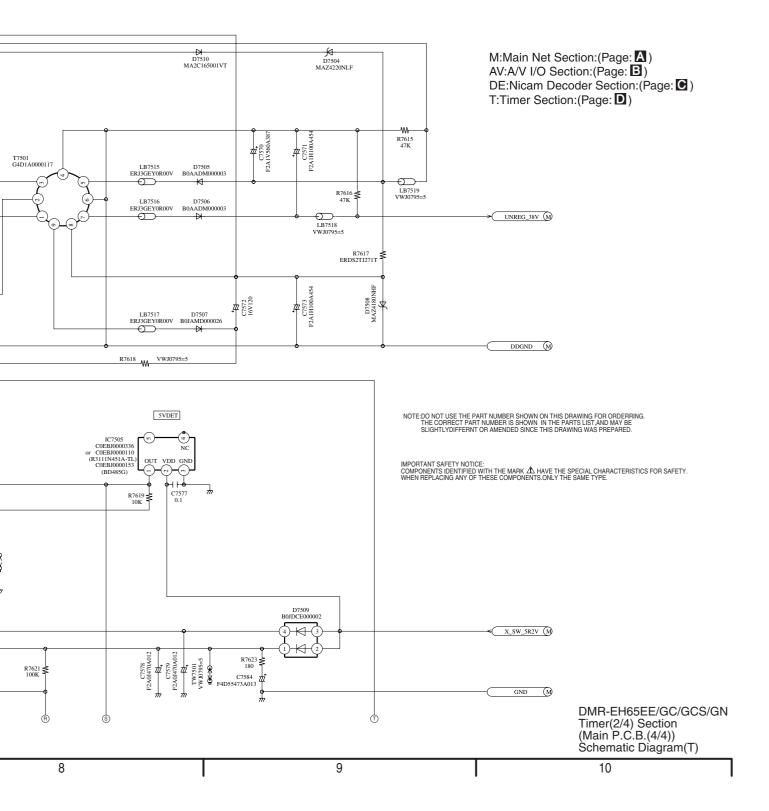




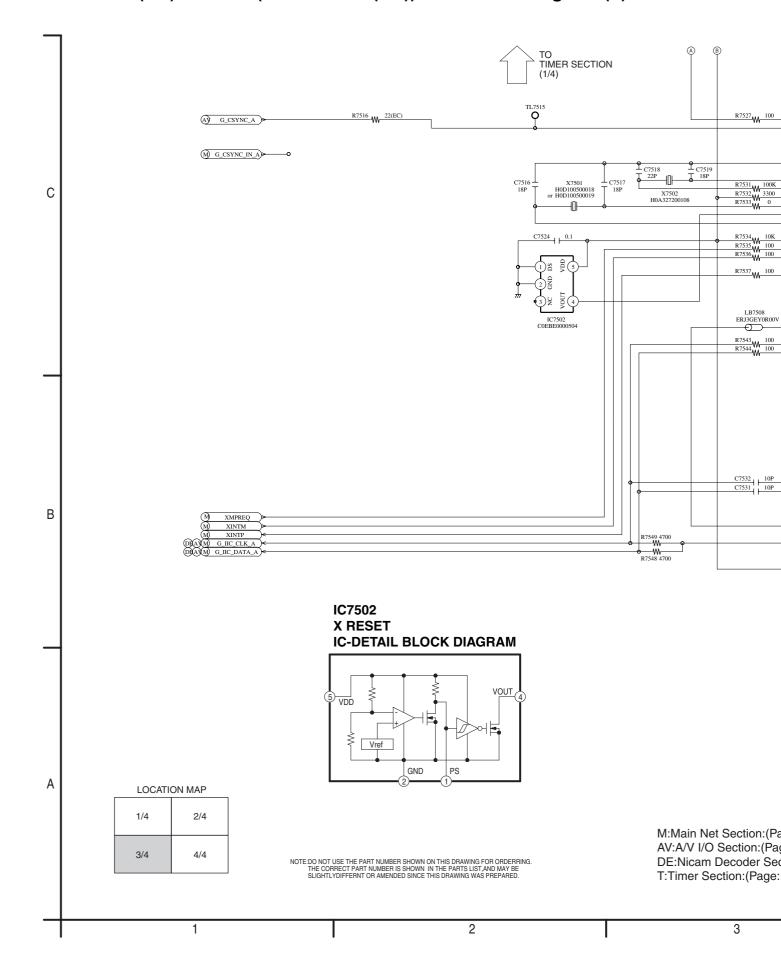
13.13. Timer (2/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)

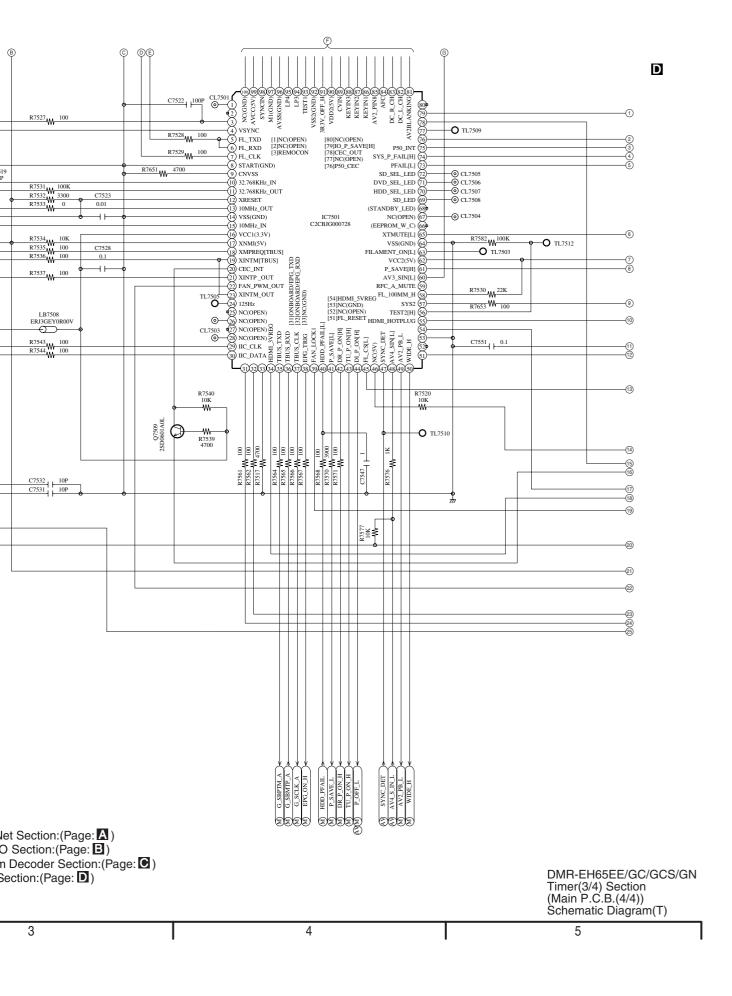


1/4 2/4 3/4 4/4

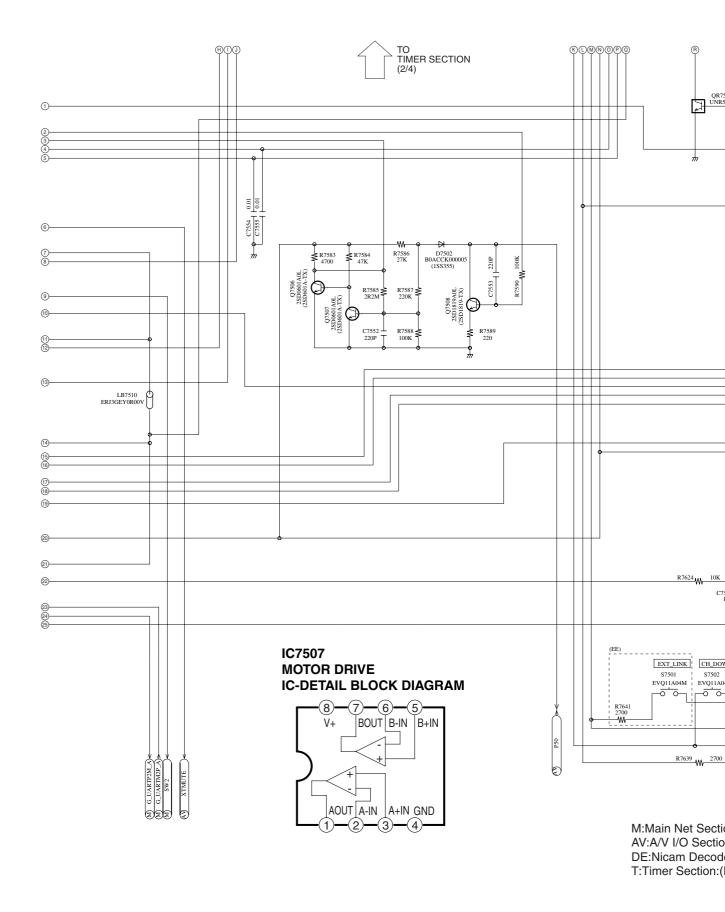


13.14. Timer (3/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)



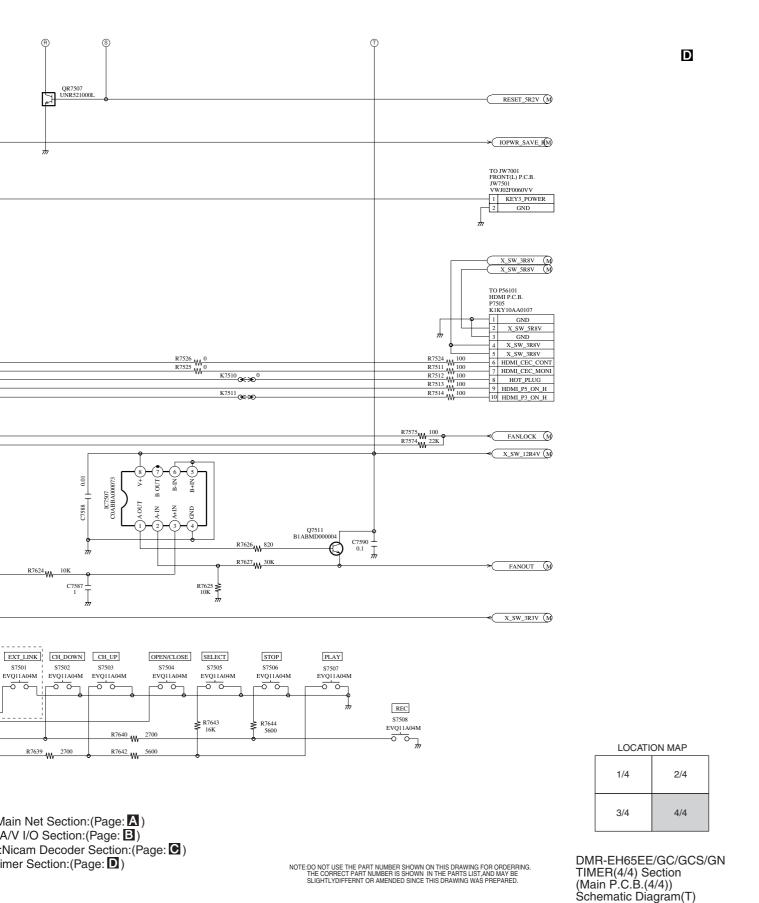


13.15. Timer (4/4) Section (Main P.C.B. (4/4)) Schematic Diagram (T)

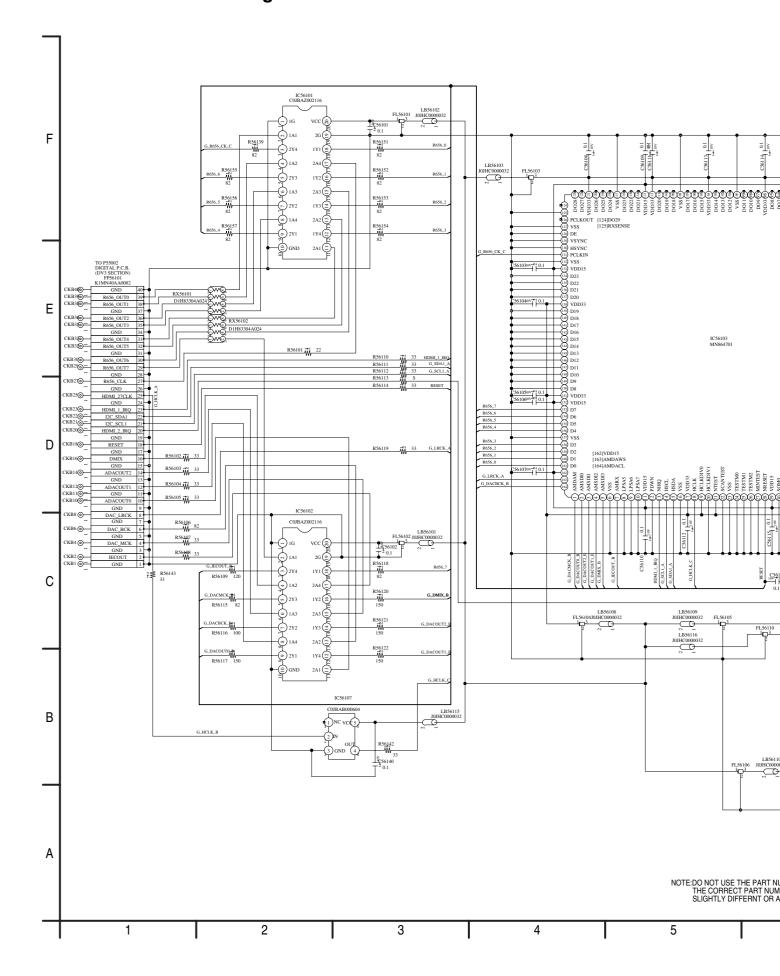


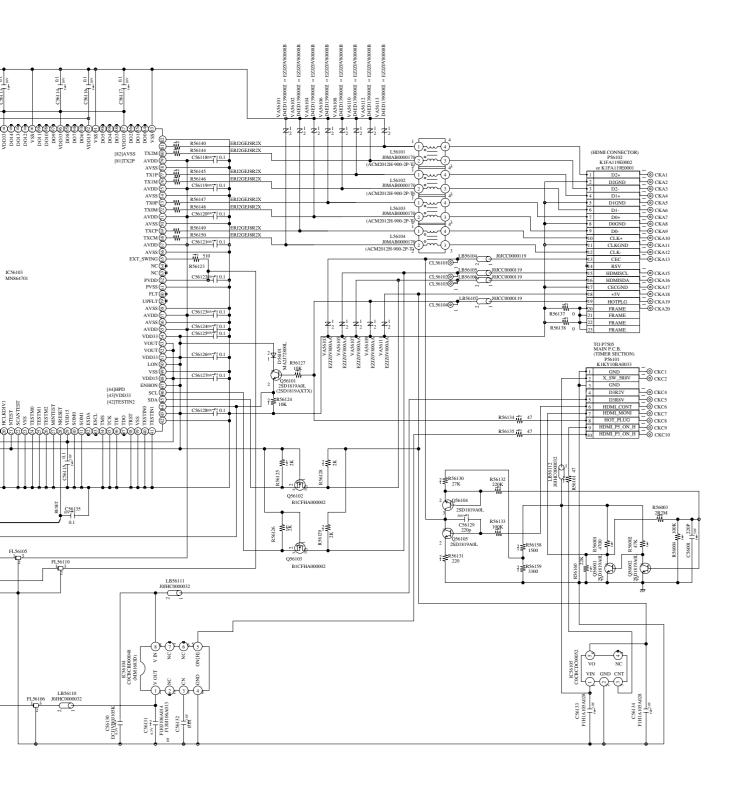
6





13.16. HDMI Schematic Diagram





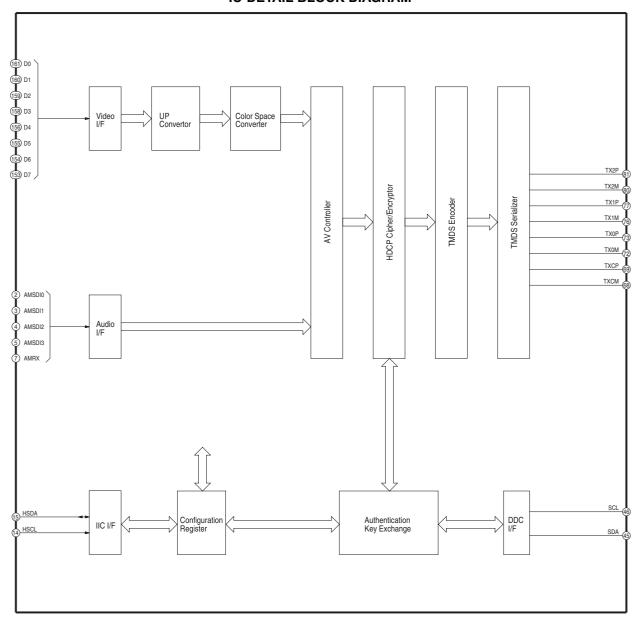
NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

BY THE PART NUMBER SHOWN ON THIS DRAWING WAS PREPARED.

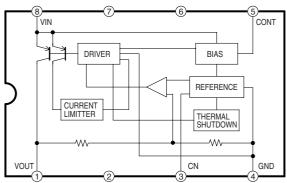
DMR-EH65EE/GC/GCS/GN HDMI Schematic Diagram

8 9 10

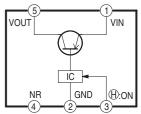
IC56103 HDMI TRANSMITTER IC-DETAIL BLOCK DIAGRAM



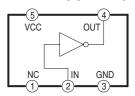
IC56104 +3.3V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM



IC56105 +5V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM

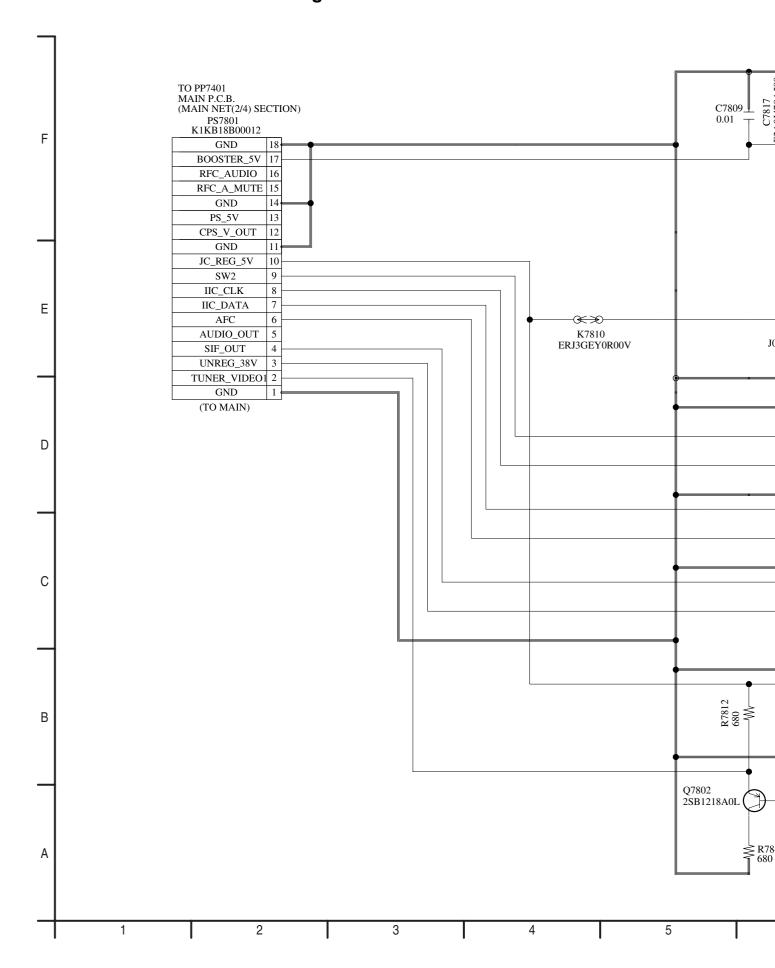


IC56107 INVERTER IC-DETAIL BLOCK DIAGRAM

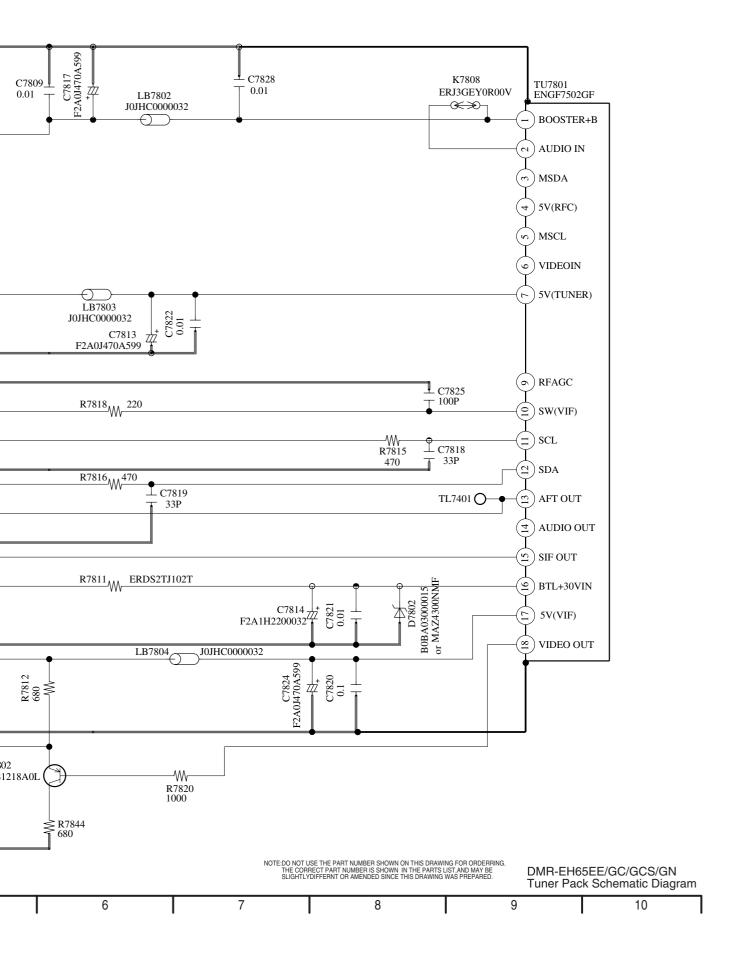


IC56103 Detail Block Diagram IC56104 Detail Block Diagram IC56105 Detail Block Diagram IC56107 Detail Block Diagram DMR-EH65EE/GC/GCS/GN IC-Detail Block Diagram

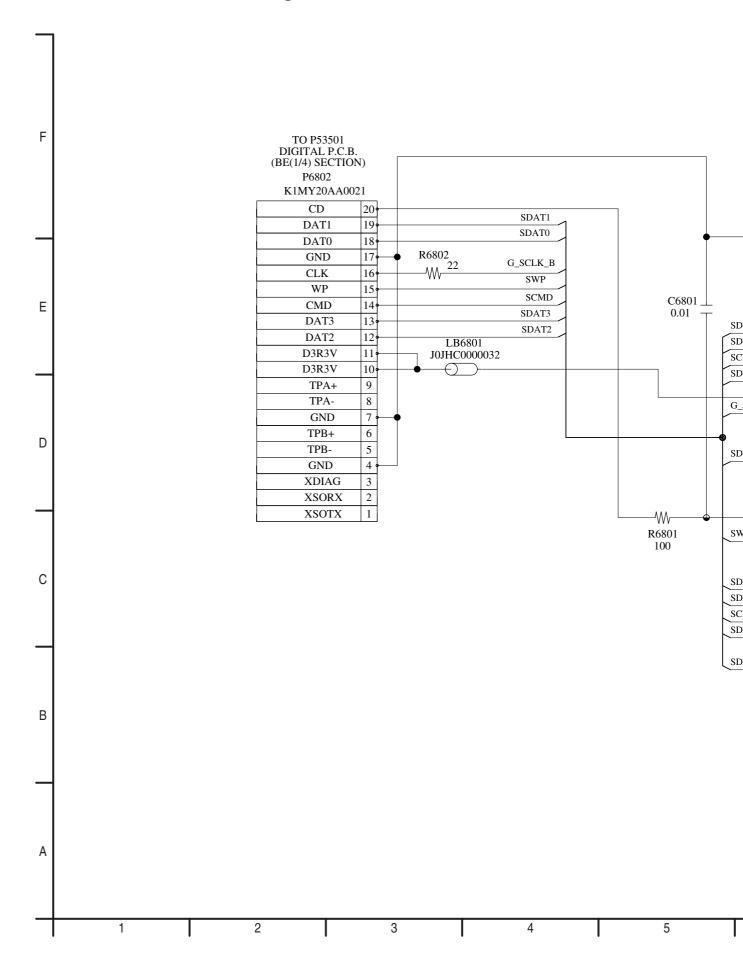
13.17. Tuner Pack Schematic Diagram



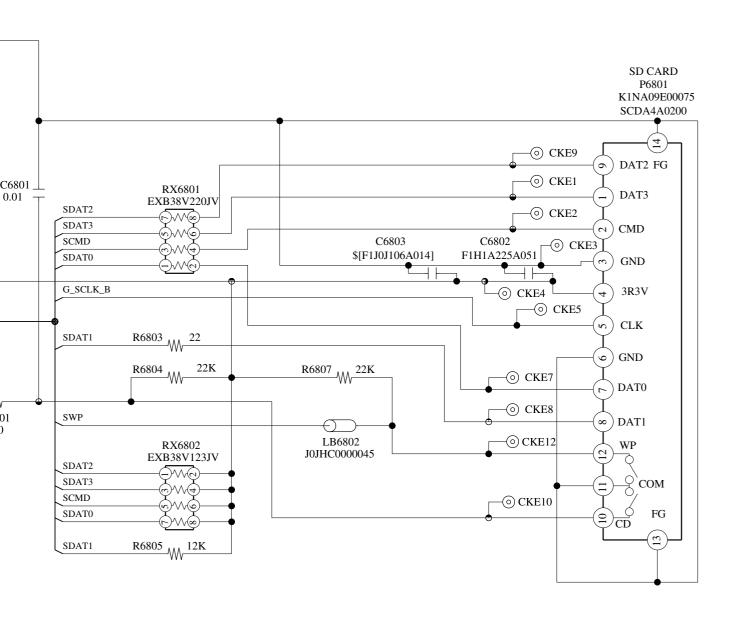




13.18. SD Card Schematic Diagram





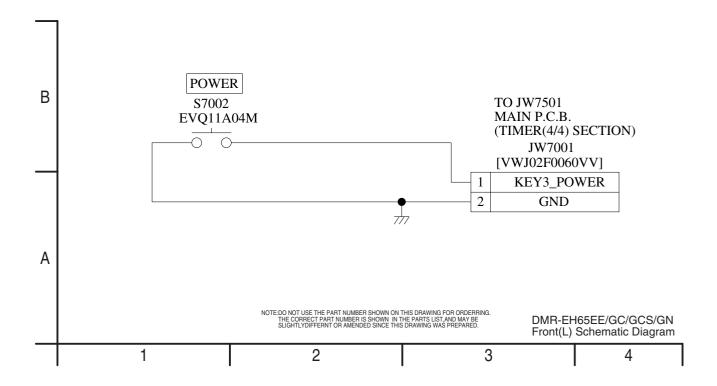


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

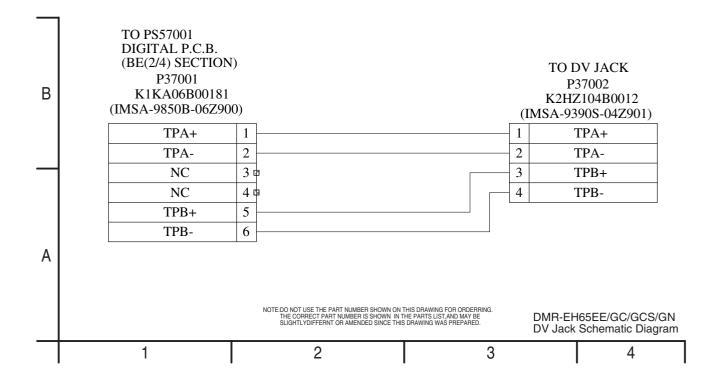
DMR-EH65EE/GC/GCS/GN SD Card Schematic Diagram

6 7 8 9 10

13.19. Front (L) Schematic Diagram

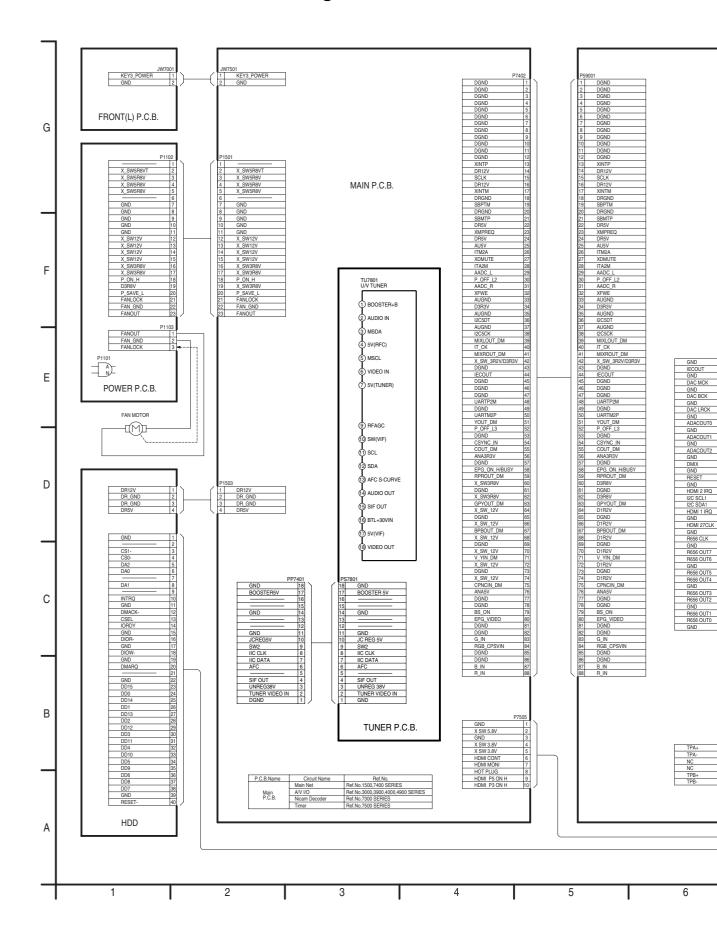


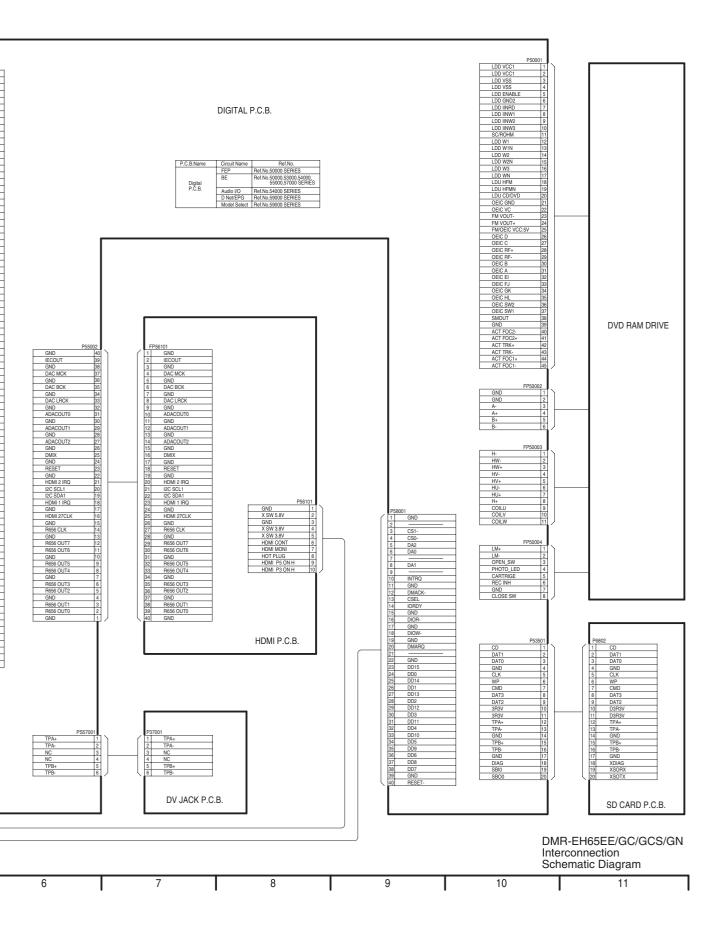
13.20. DV Jack Schematic Diagram



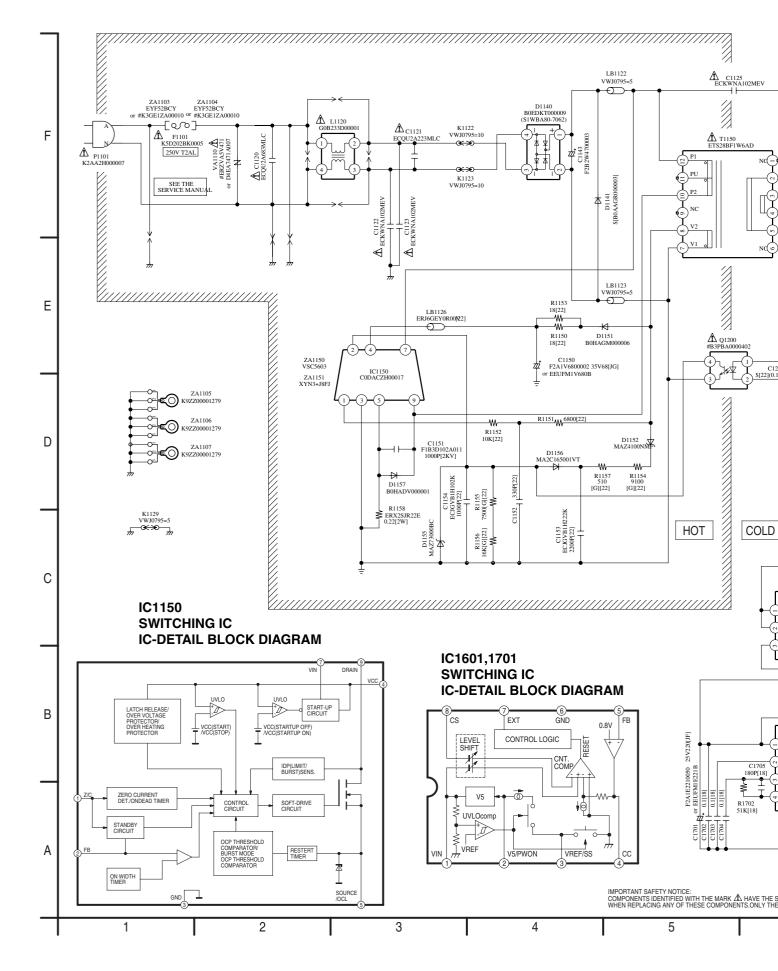
13 Schematic Diagram

13.1. Interconnection Schematic Diagram

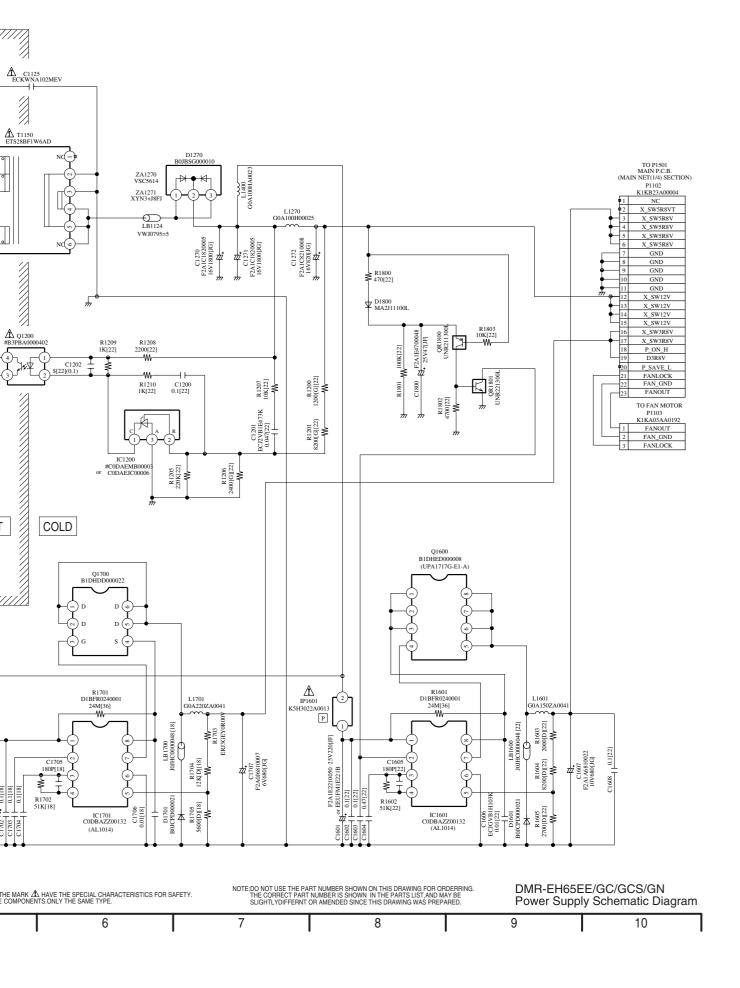




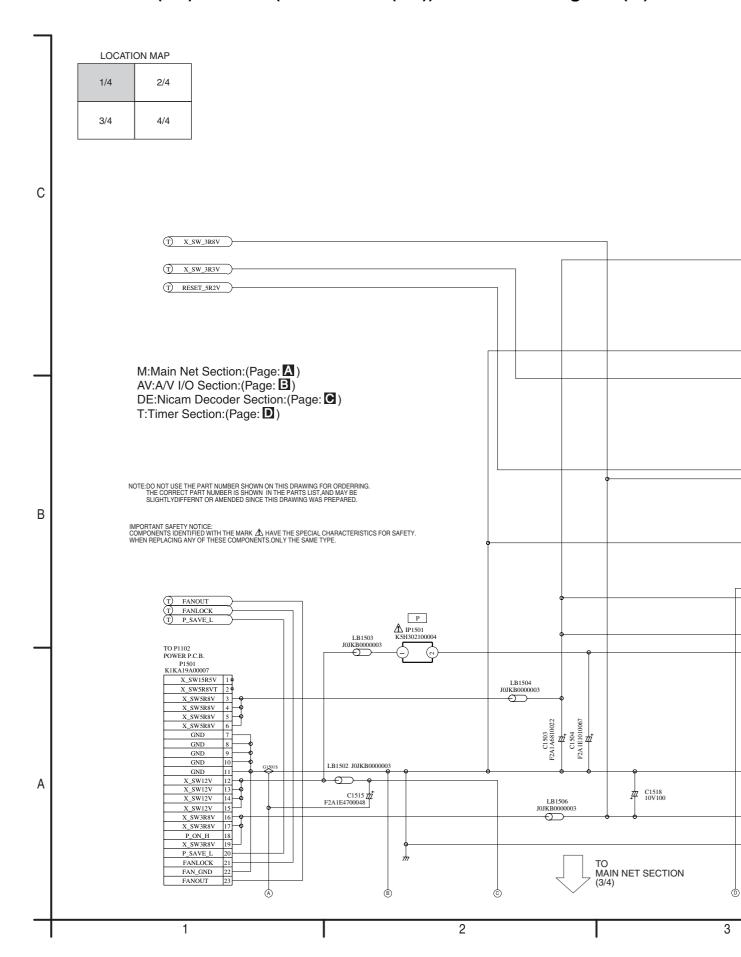
13.2. Power Supply Schematic Diagram

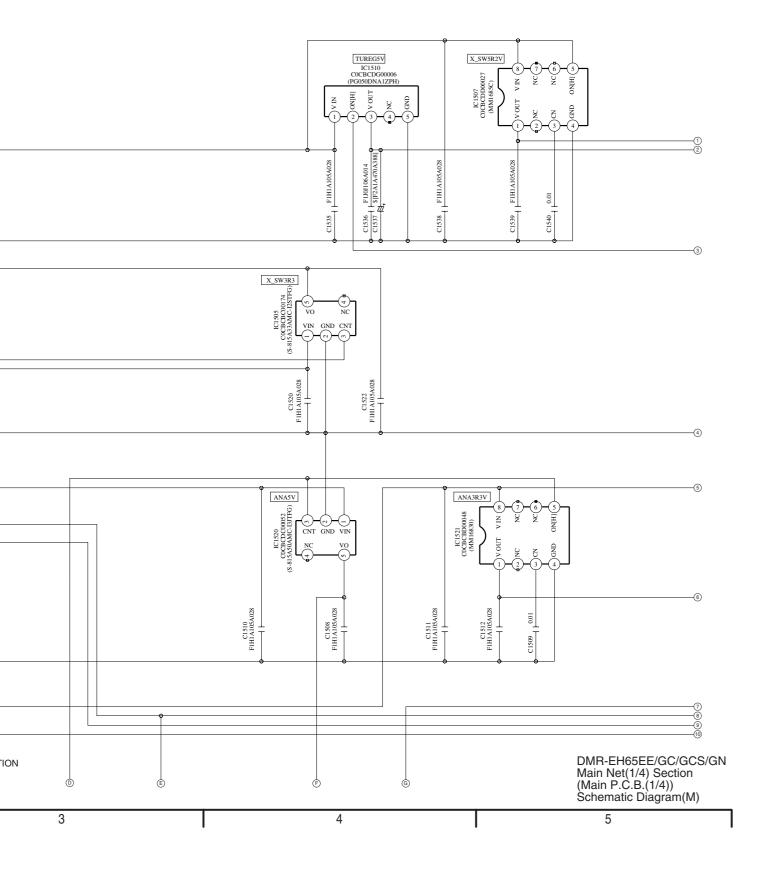




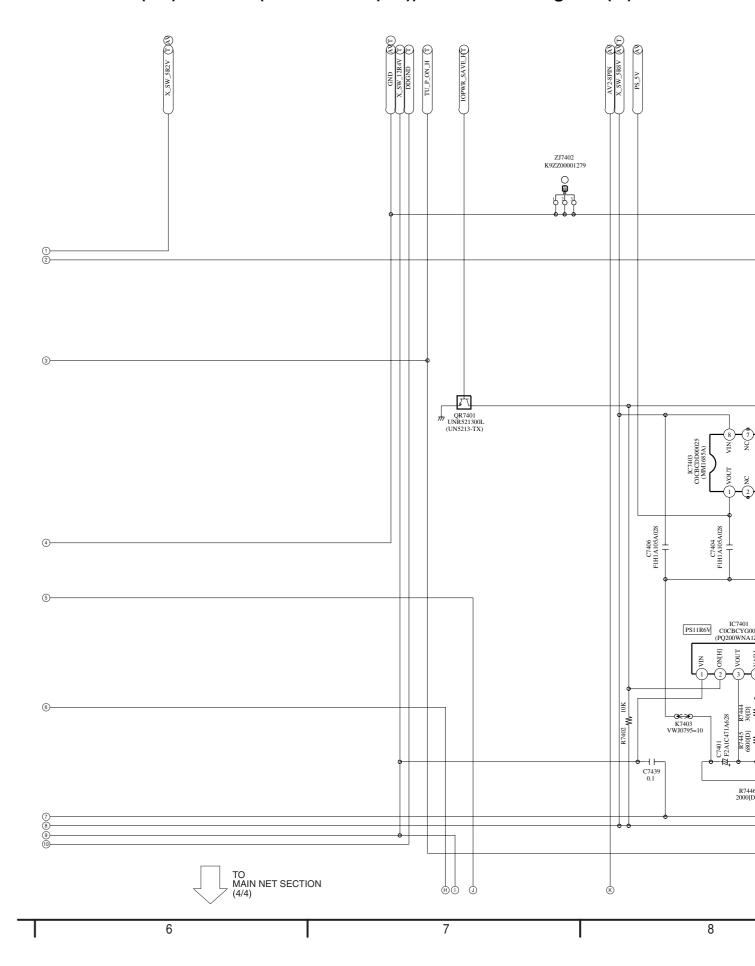


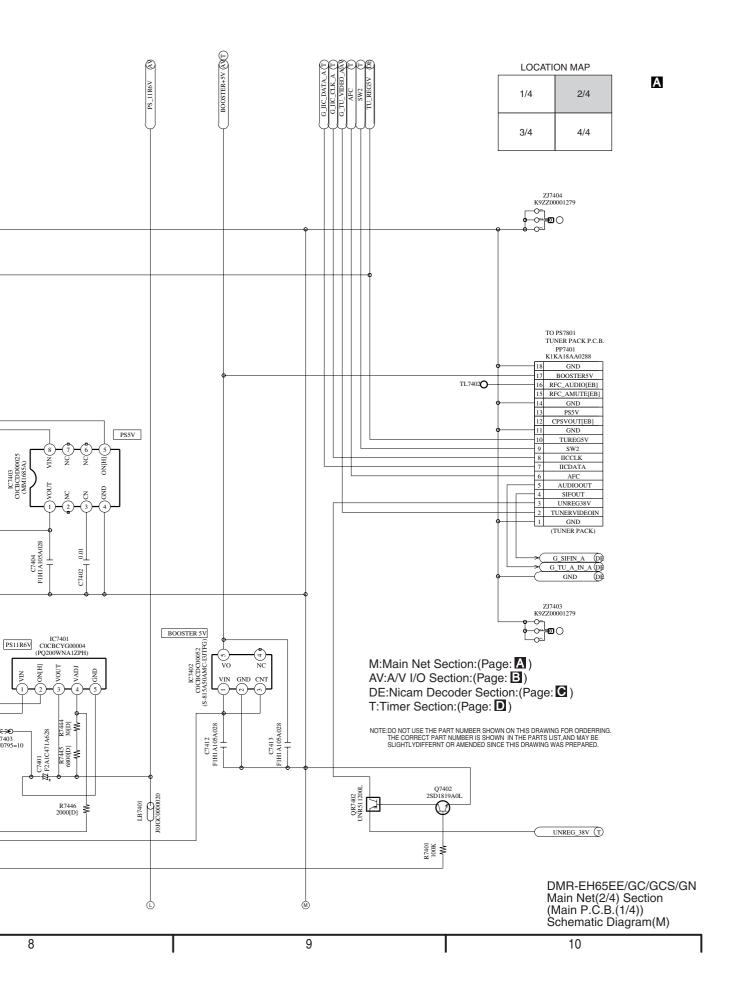
13.3. Main Net (1/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)



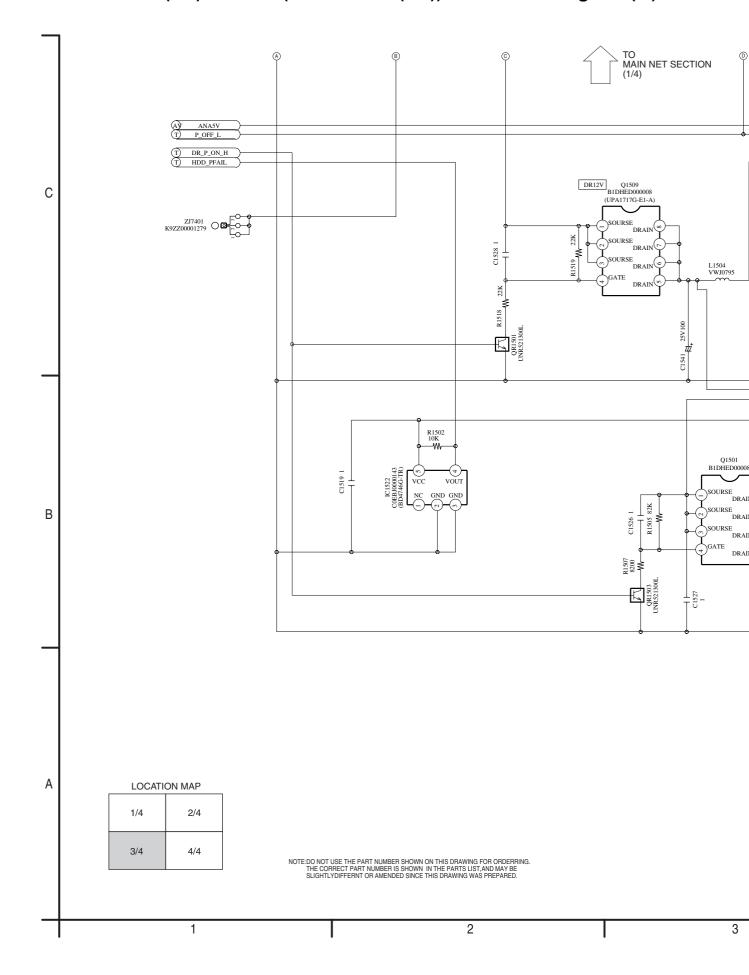


13.4. Main Net (2/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)

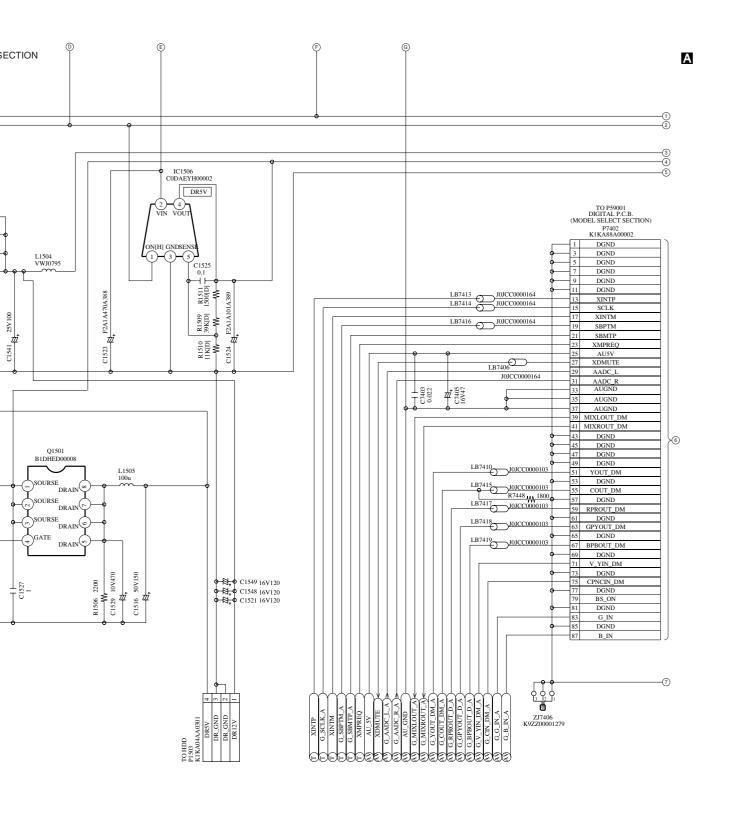




13.5. Main Net (3/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)





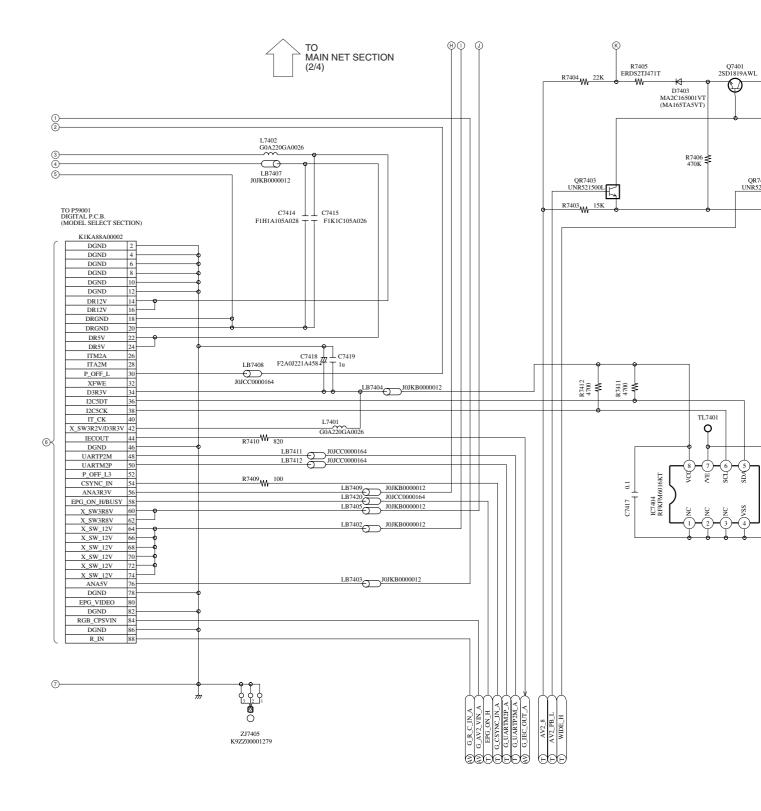


M:Main Net Section:(Page: ♠)
AV:A/V I/O Section:(Page: ℮)
DE:Nicam Decoder Section:(Page: ℮)
T:Timer Section:(Page: ℮)

DMR-EH65EE/GC/GCS/GN Main Net(3/4) Section (Main P.C.B.(1/4)) Schematic Diagram(M)

3 4 5

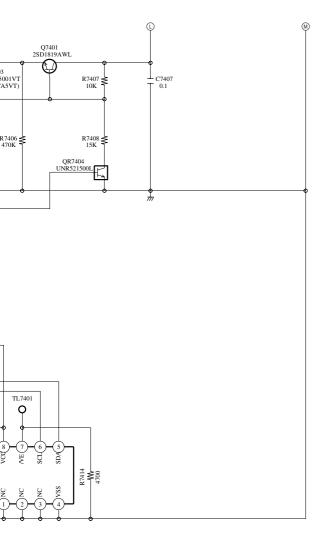
13.6. Main Net (4/4) Section (Main P.C.B. (1/4)) Schematic Diagram (M)



M:Main Net Section:(Pa AV:A/V I/O Section:(Pa DE:Nicam Decoder Se T:Timer Section:(Page

6 7 8





Α

LOCATION MAP

1/4	2/4
3/4	4/4

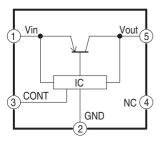
Net Section:(Page: (A))
//O Section:(Page: (B))
am Decoder Section:(Page: (C))
Section:(Page: (D))

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

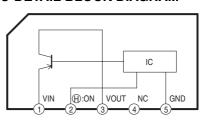
DMR-EH65EE/GC/GCS/GN Main Net(4/4) Section (Main P.C.B.(1/4)) Schematic Diagram(M)

8 9 10

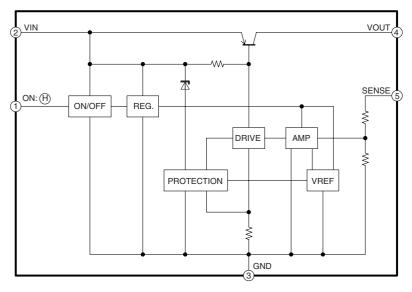
IC1505 XSW +3.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



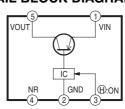
IC1510 TU +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



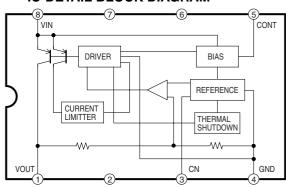
IC1506 DR +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



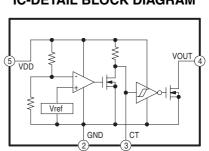
IC1520 ANA +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



IC1507 XSW +5.2V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

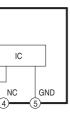


IC1522 RESET IC-DETAIL BLOCK DIAGRAM

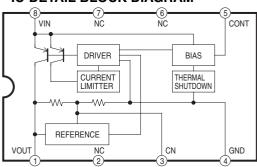




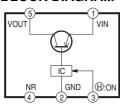
REGULATOR AGRAM



IC1521 ANA +3.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



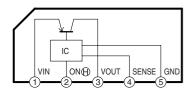
IC7402 BOOSTER +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



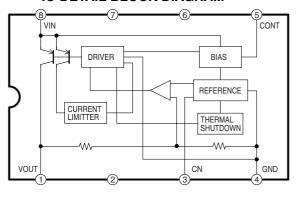
REGULATOR GRAM



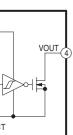
IC7401 PS +11.6V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



IC7403 PS +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

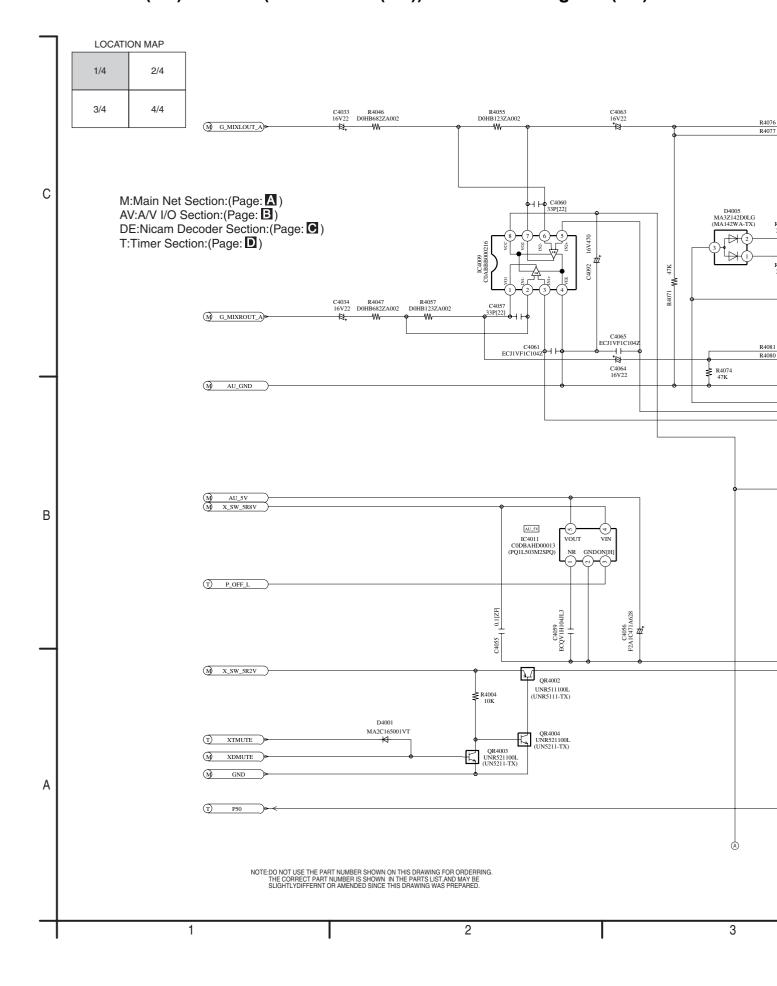


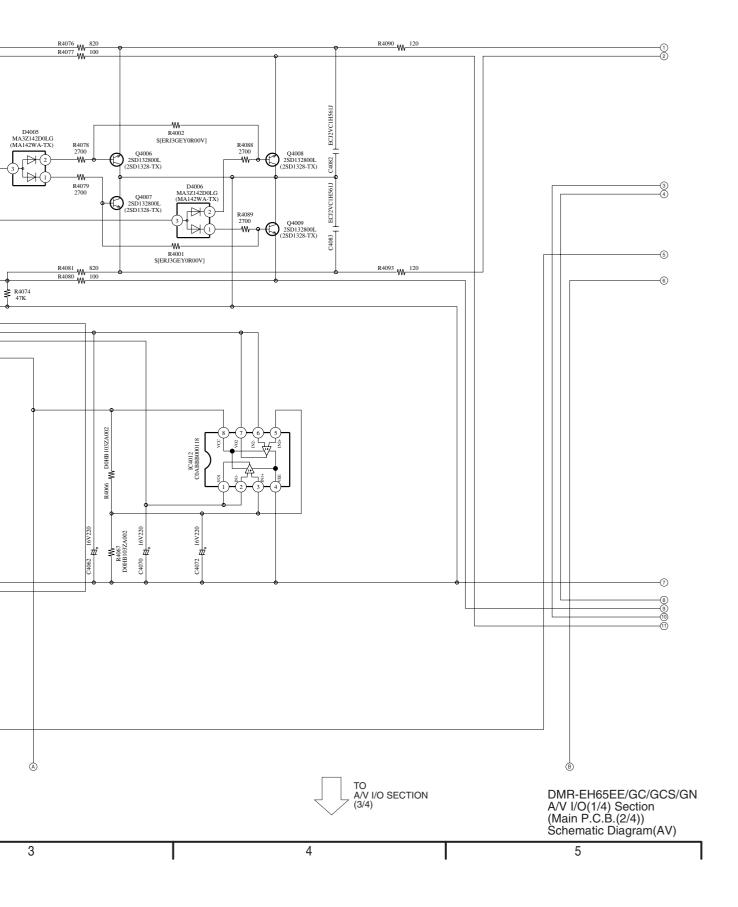
DIAGRAM



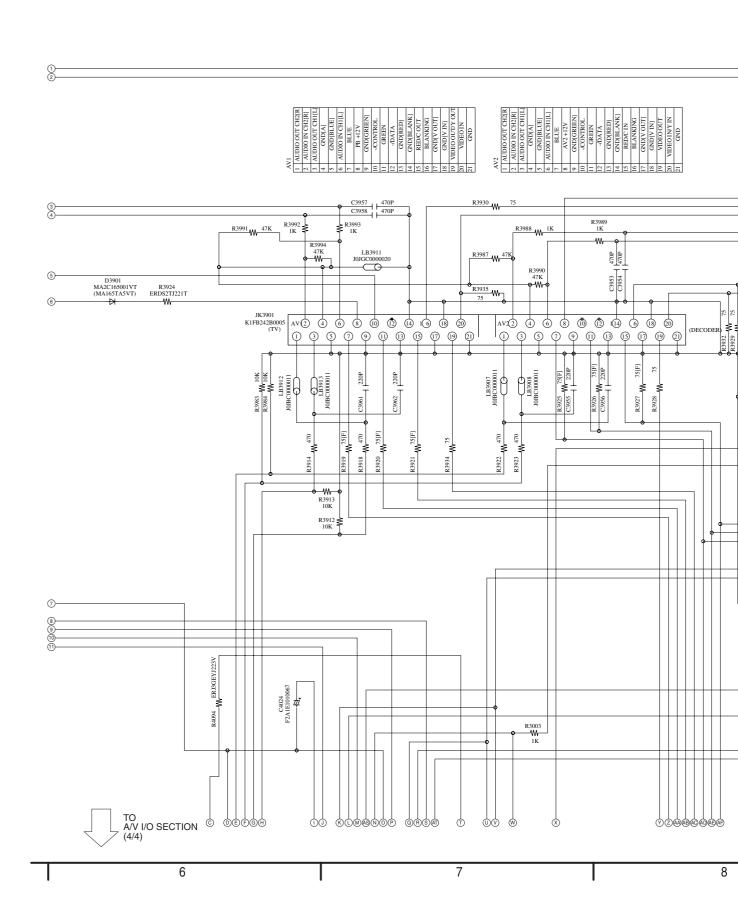
IC1505 Detail Block Diagram
IC1506 Detail Block Diagram
IC1507 Detail Block Diagram
IC1510 Detail Block Diagram
IC1520 Detail Block Diagram
IC1521 Detail Block Diagram
IC1522 Detail Block Diagram
IC1522 Detail Block Diagram
IC7401 Detail Block Diagram
IC7402 Detail Block Diagram
IC7403 Detail Block Diagram
IC7403 Detail Block Diagram
DMR-EH65EE/GC/GCS/GN IC-Detail Block Diagram

13.7. A/V I/O (1/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)



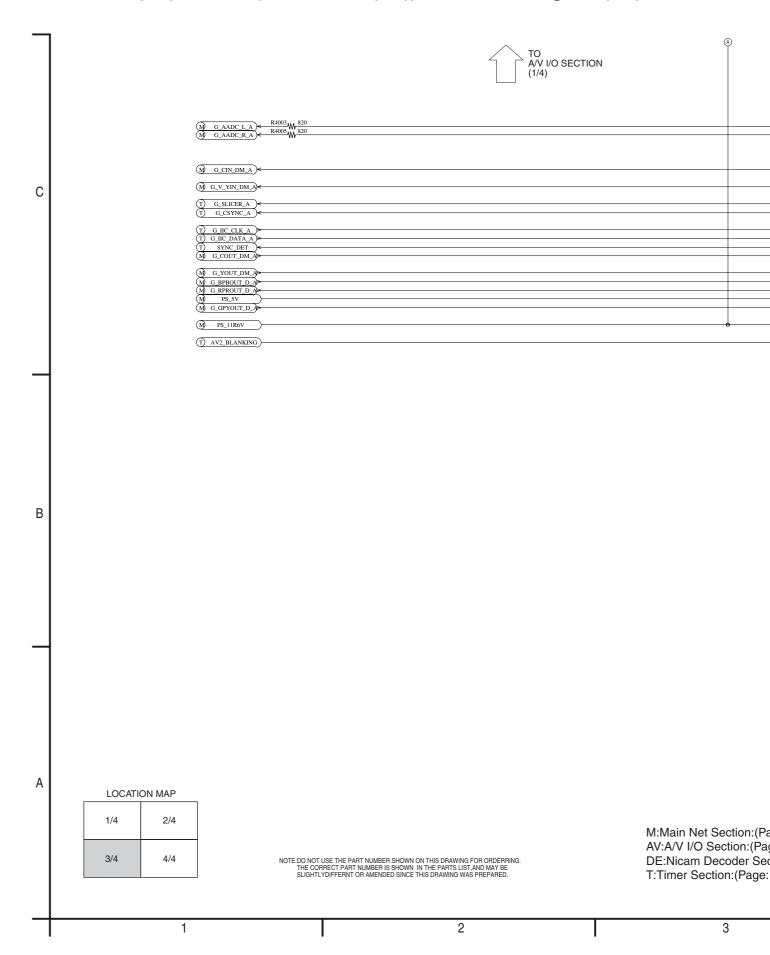


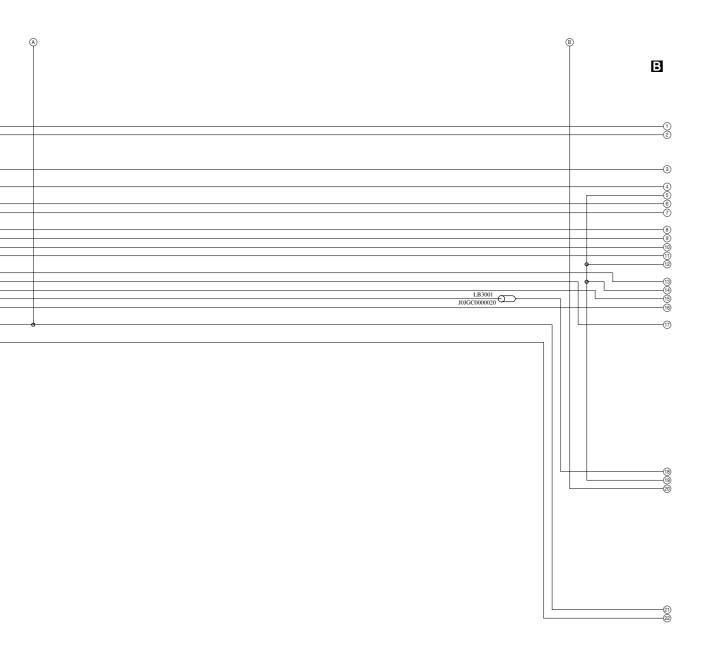
13.8. A/V I/O (2/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)



LOCATION MAP В 1/4 3/4 4/4 M:Main Net Section:(Page: A) AV:A/V I/O Section:(Page: B) DE:Nicam Decoder Section:(Page:) T:Timer Section:(Page: **D**) AV2-8PIN M AV3_S_IN_L T R3060 W 75 $\overline{\mathbf{s}}$ <u>⊕</u> R3061 75 (DECODER) \$ Ξ R3062 W 75 LB3011 ERJ3GEY0R00V J0JBC0000011 Ξ Ξ LB3013 J0JBC0000011 (FRONT JACK) C3072 | 0.1 G_AV2_VIN_A (M)
G_R_C_IN_A (M)
G_G_IN_A (M)
G_B_IN_A (M) G_DEC_L_A DB G_DEC_R_A DB AV4 R IN R3008 1K LB3007 J0JBC0000011 R4007 82K LB3008 J0JBC0000019 C3060 T DMR-EH65EE/GC/GCS/GN A/V I/O(2/4) Section (Main P.C.B.(2/4)) NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST AND MAY BE SLIGHTLY OFFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED. Schematic Diagram(AV) 8 9 10

13.9. A/V I/O (3/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)



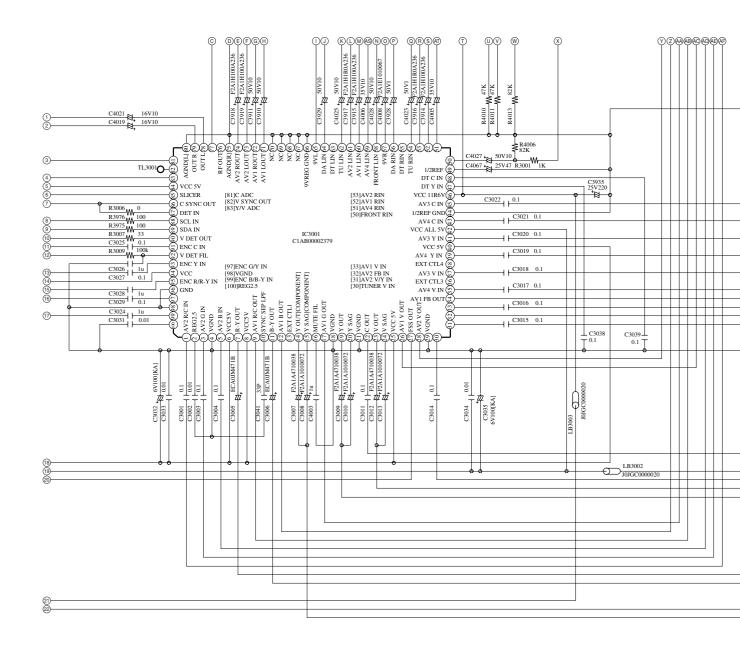


let Section:(Page: ♠)
O Section:(Page: ♠)
n Decoder Section:(Page: ♠)
Section:(Page: ♠)

DMR-EH65EE/GC/GCS/GN A/V I/O(3/4) Section (Main P.C.B.(2/4)) Schematic Diagram(AV)

3 4 5

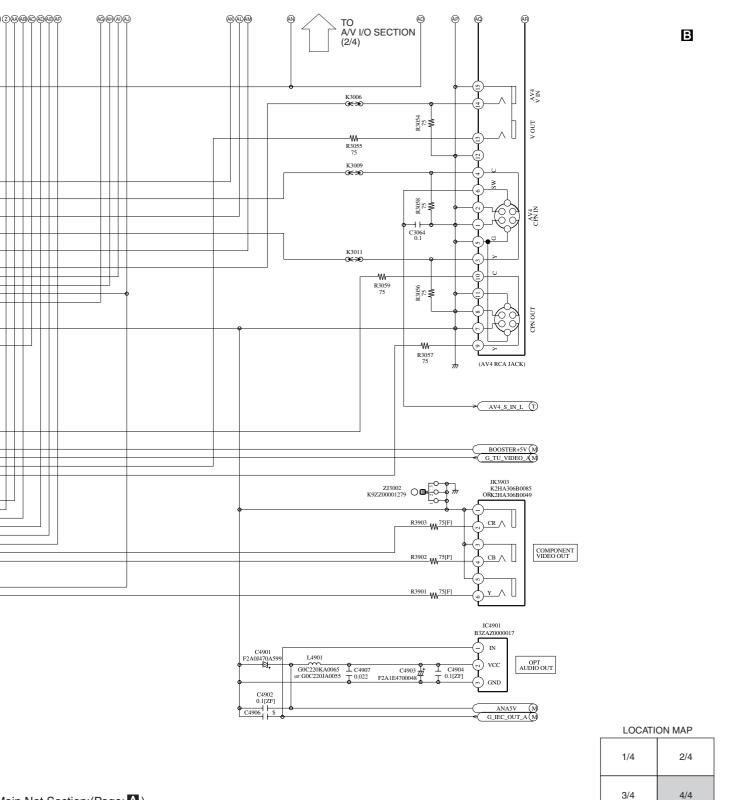
13.10. A/V I/O (4/4) Section (Main P.C.B. (2/4)) Schematic Diagram (AV)



M:Main Net Section
AV:A/V I/O Section
DE:Nicam Decodor
T:Timer Section:(I







Main Net Section:(Page: ♠)

A/V I/O Section:(Page: ♠)

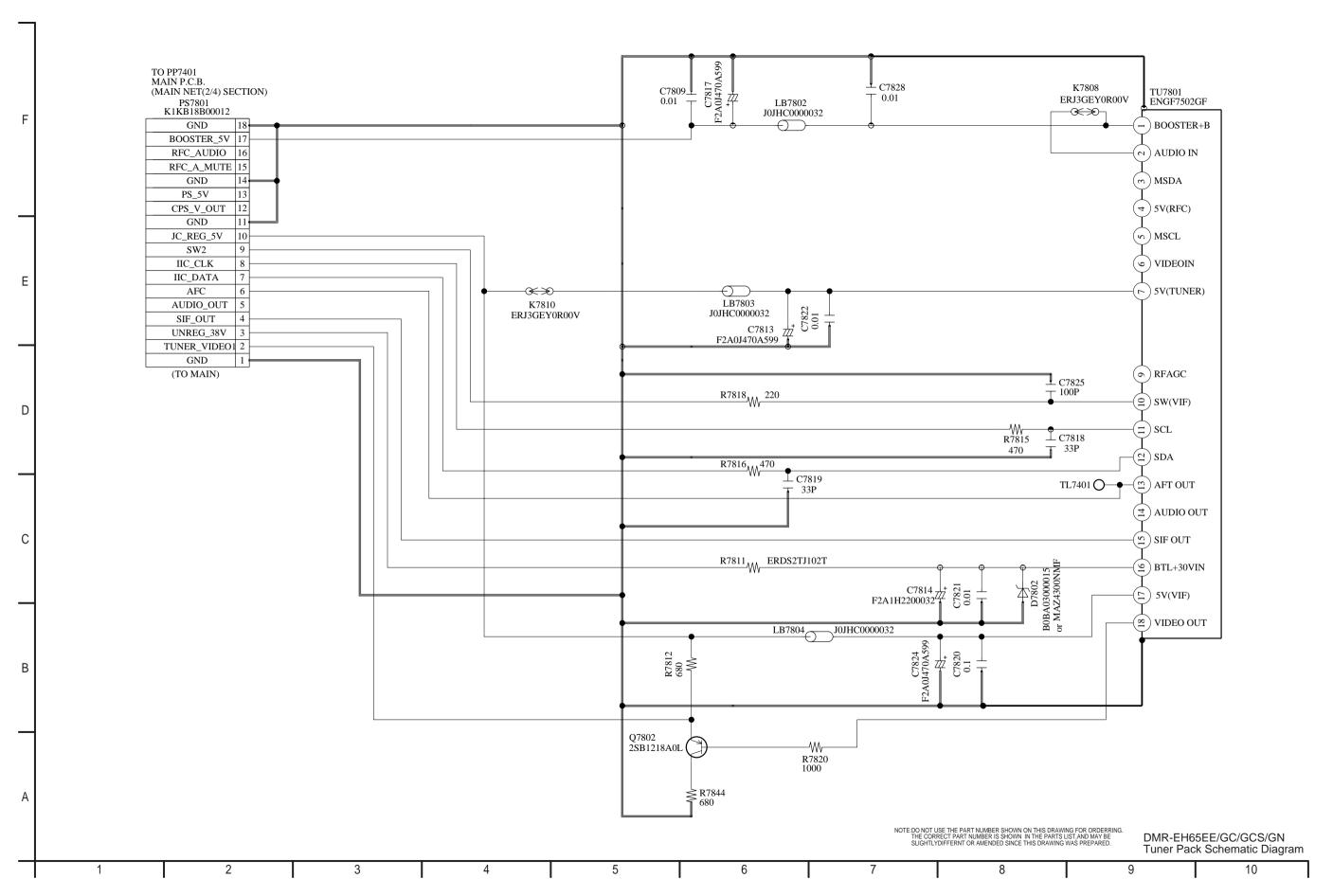
:Nicam Decoder Section:(Page: ♠)

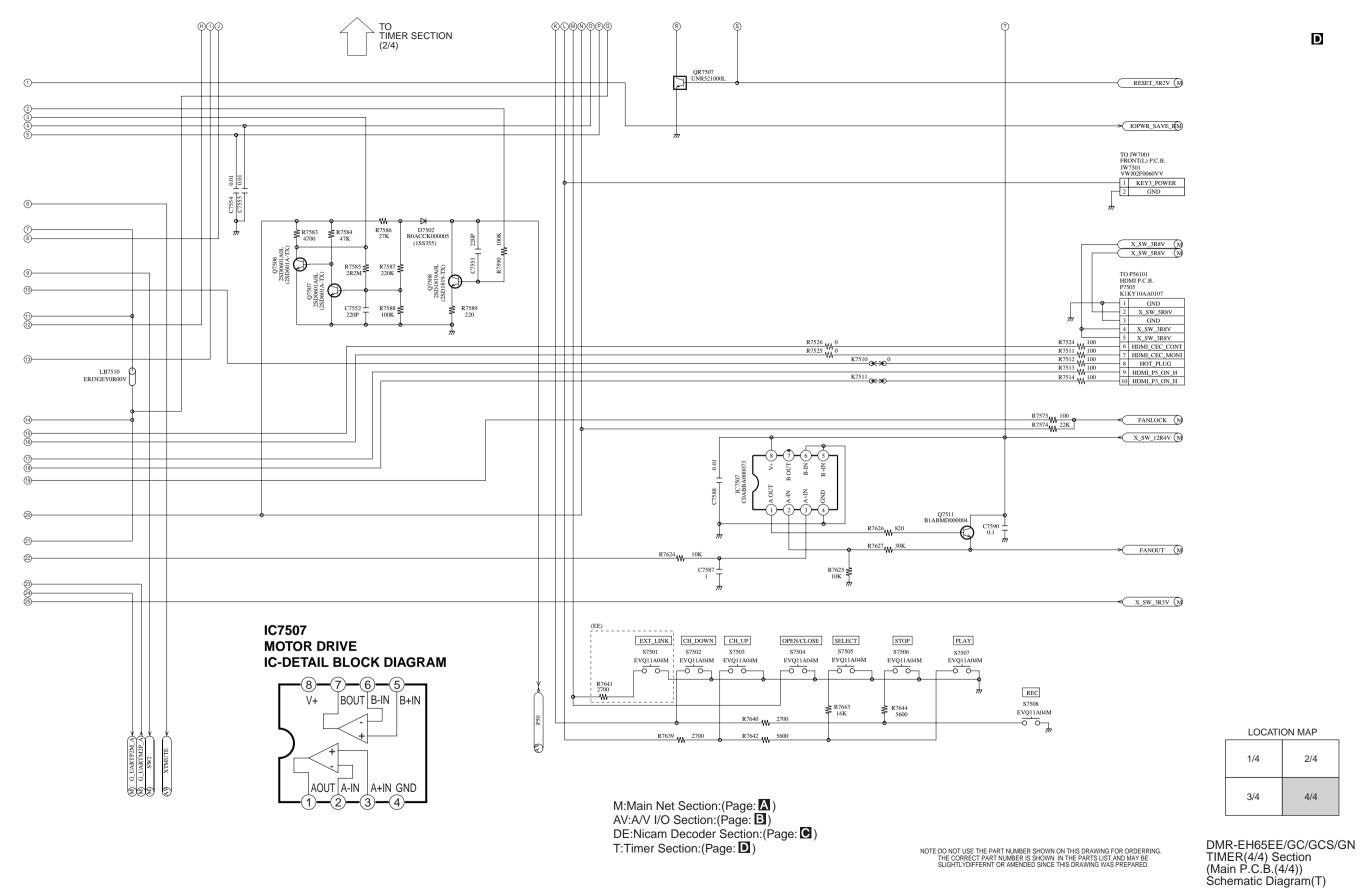
imer Section:(Page: ▶)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY UPIFFERIN OR AMENDED SINCE THIS DRAWING WAS PREPARED.

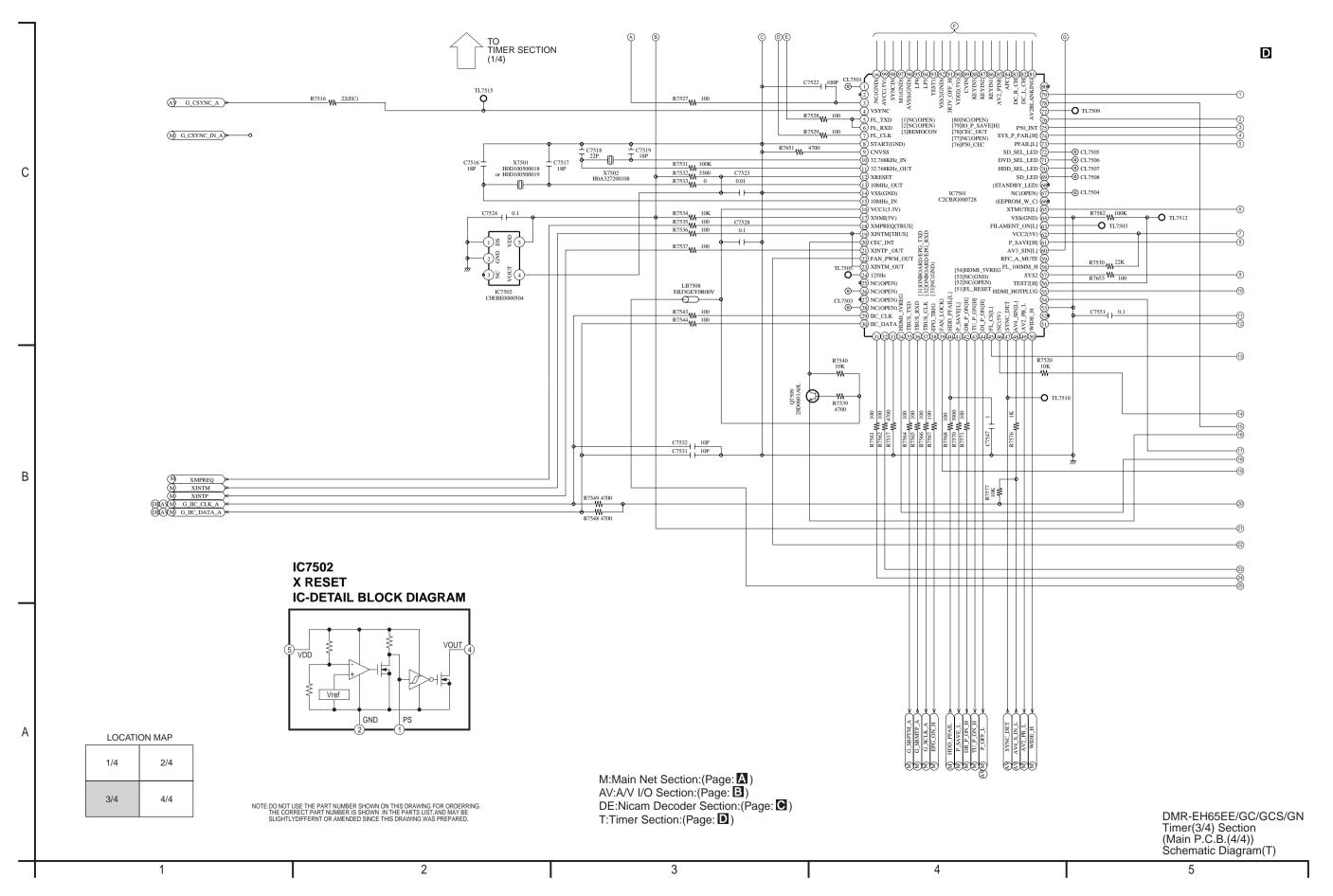
DMR-EH65EE/GC/GCS/GN A/V I/O(4/4) Section (Main P.C.B.(2/4)) Schematic Diagram(AV)

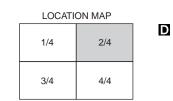
8 9 10

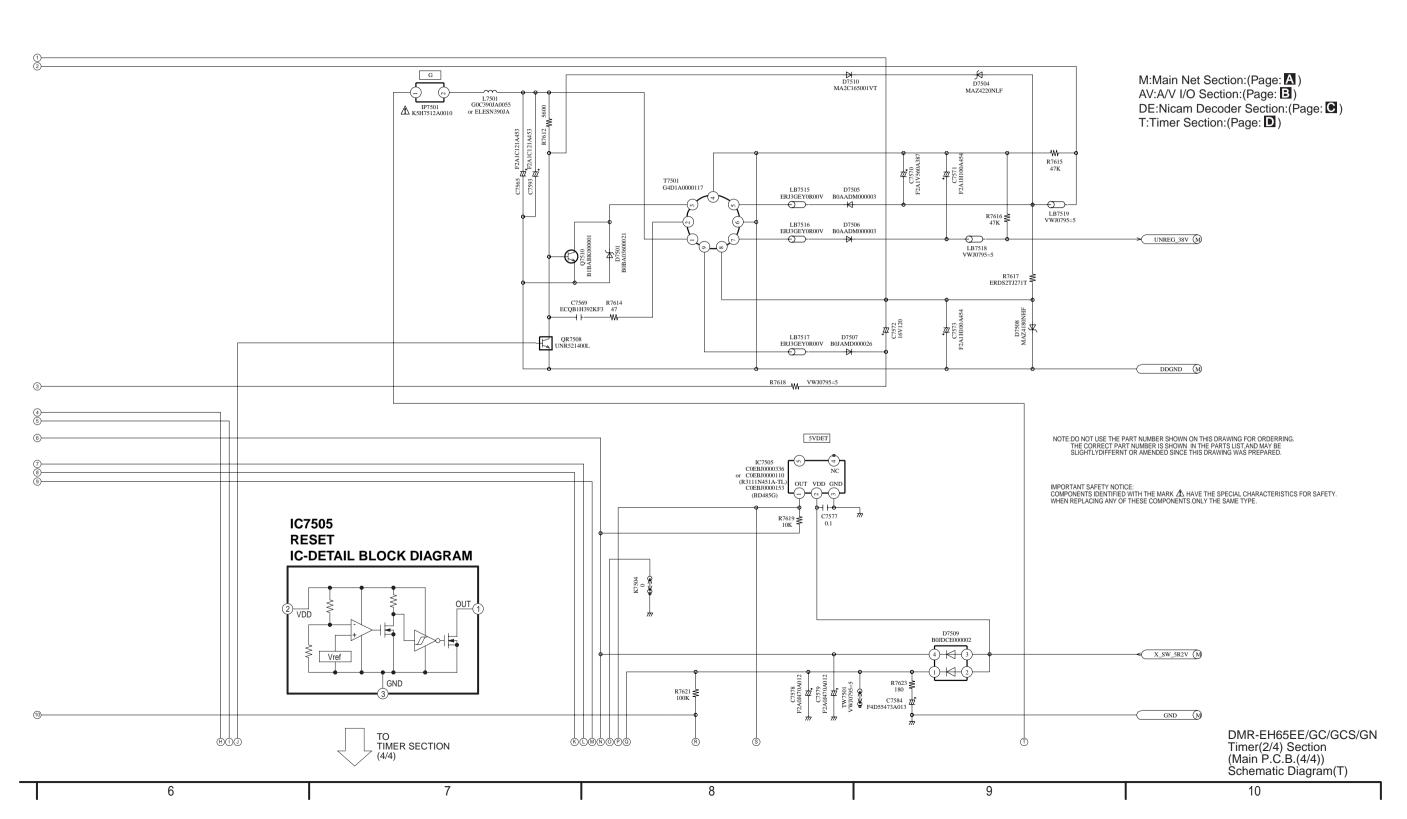


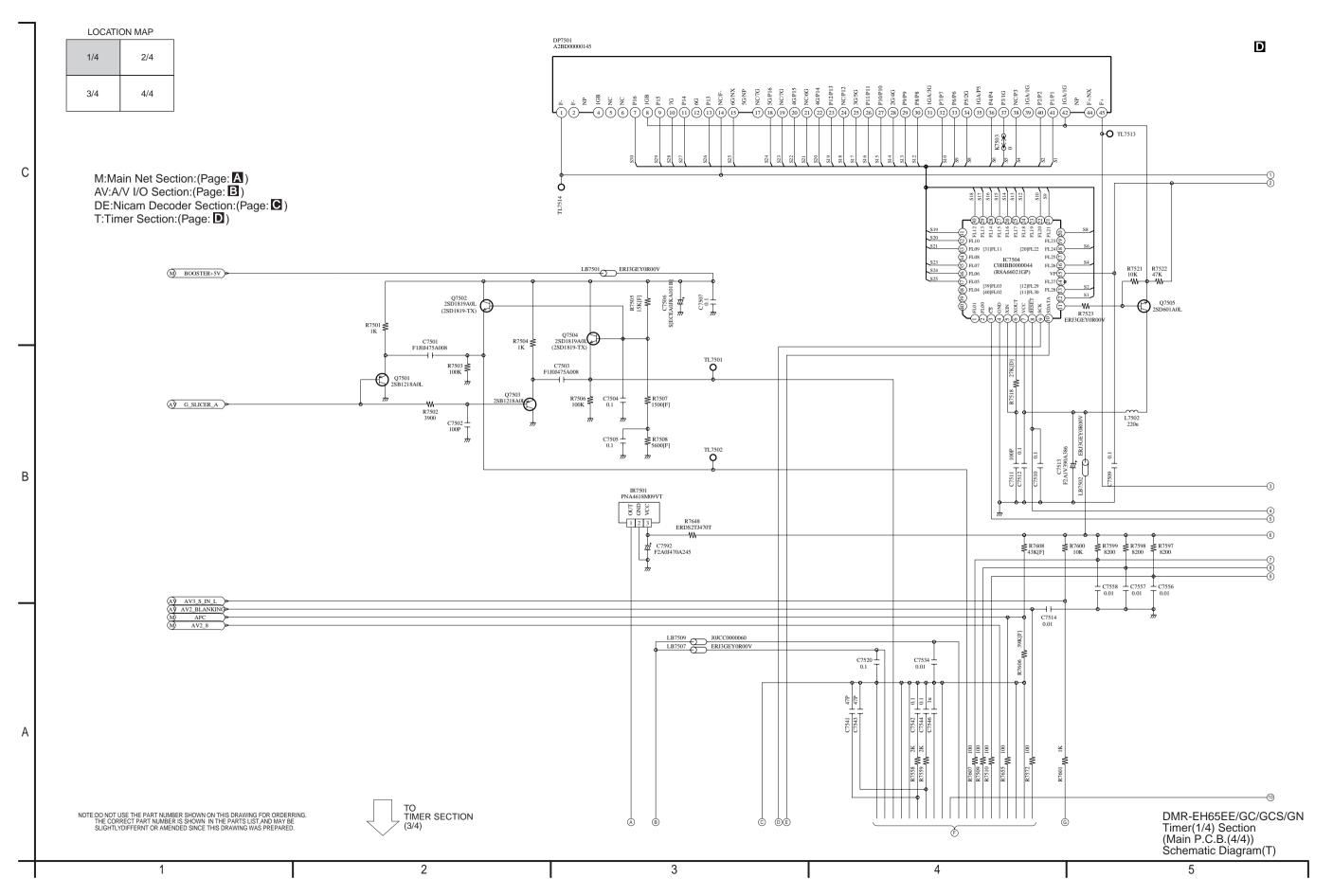


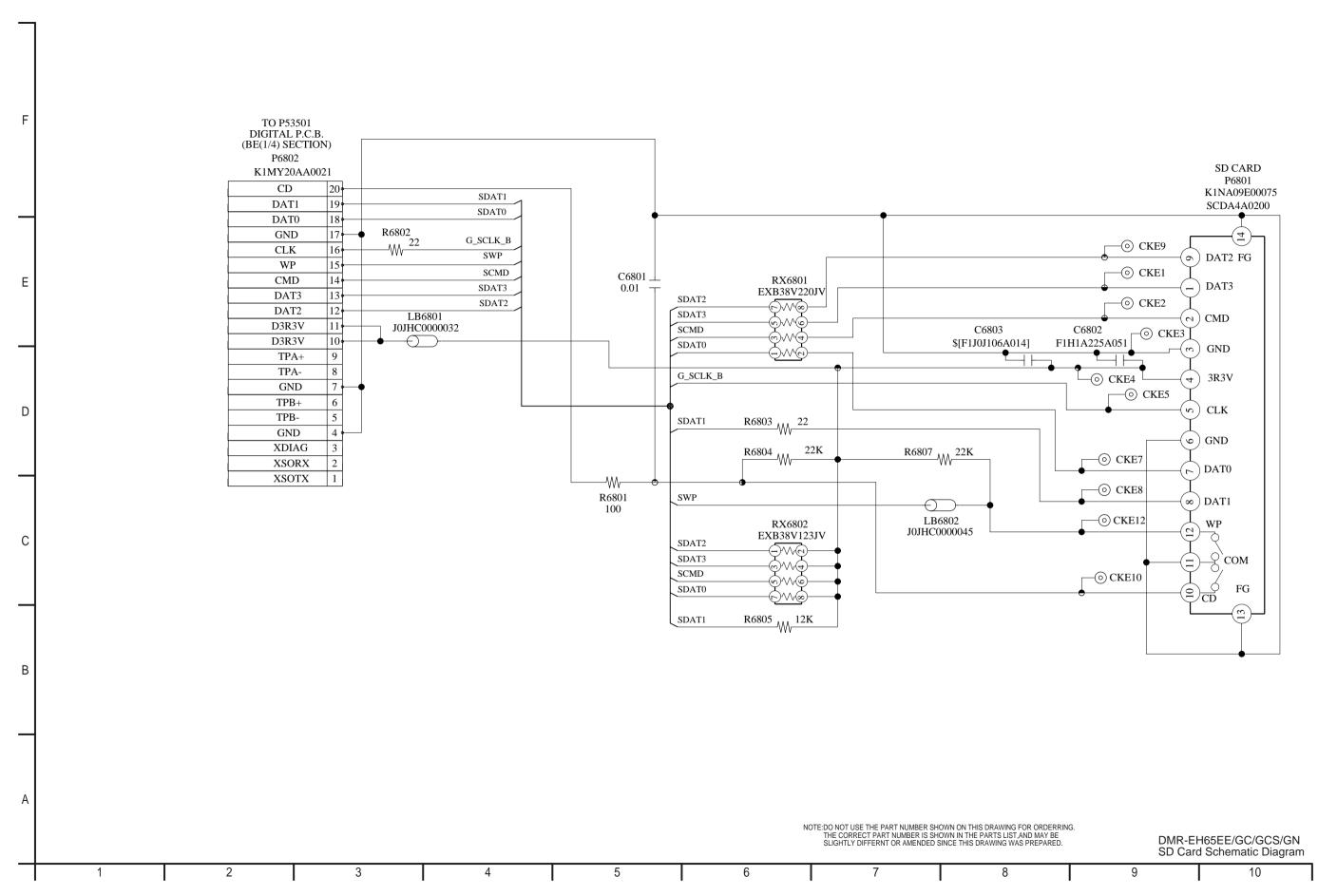
6 7 8 9 10

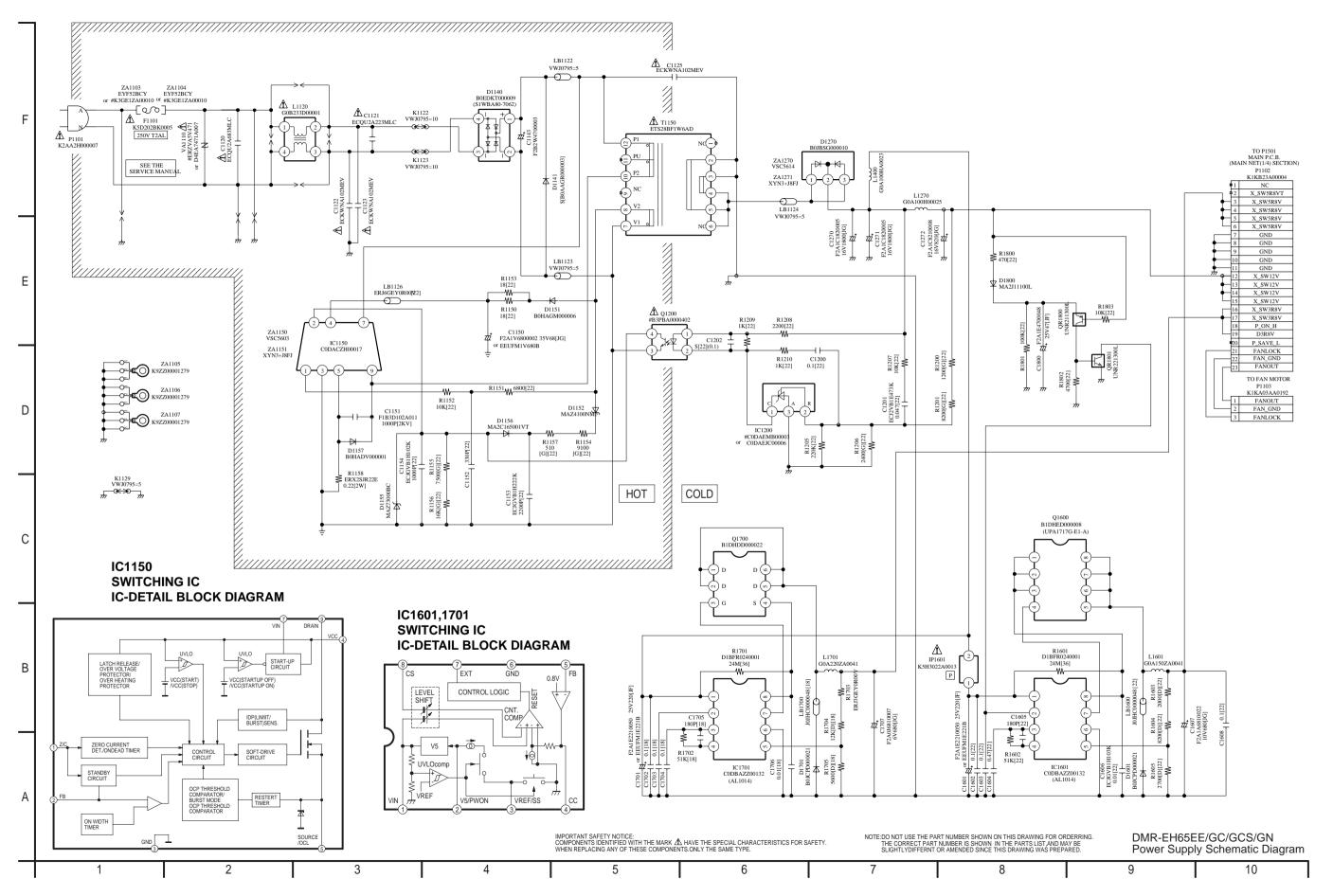




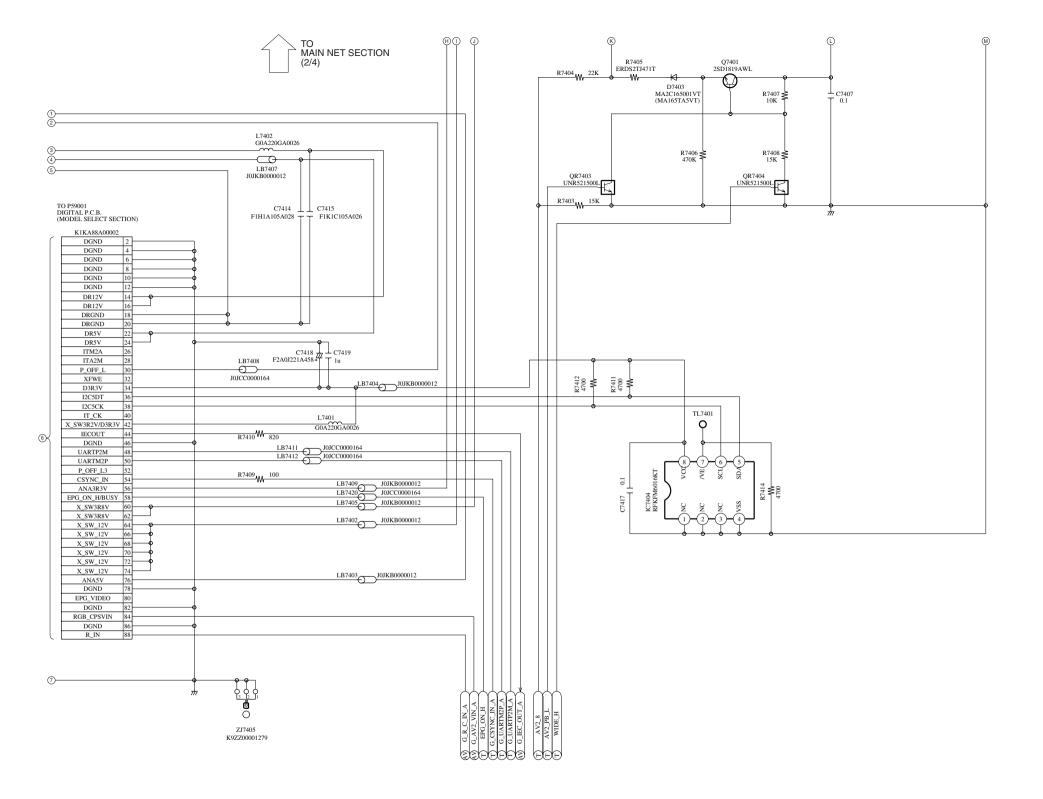












LOCATION MAP

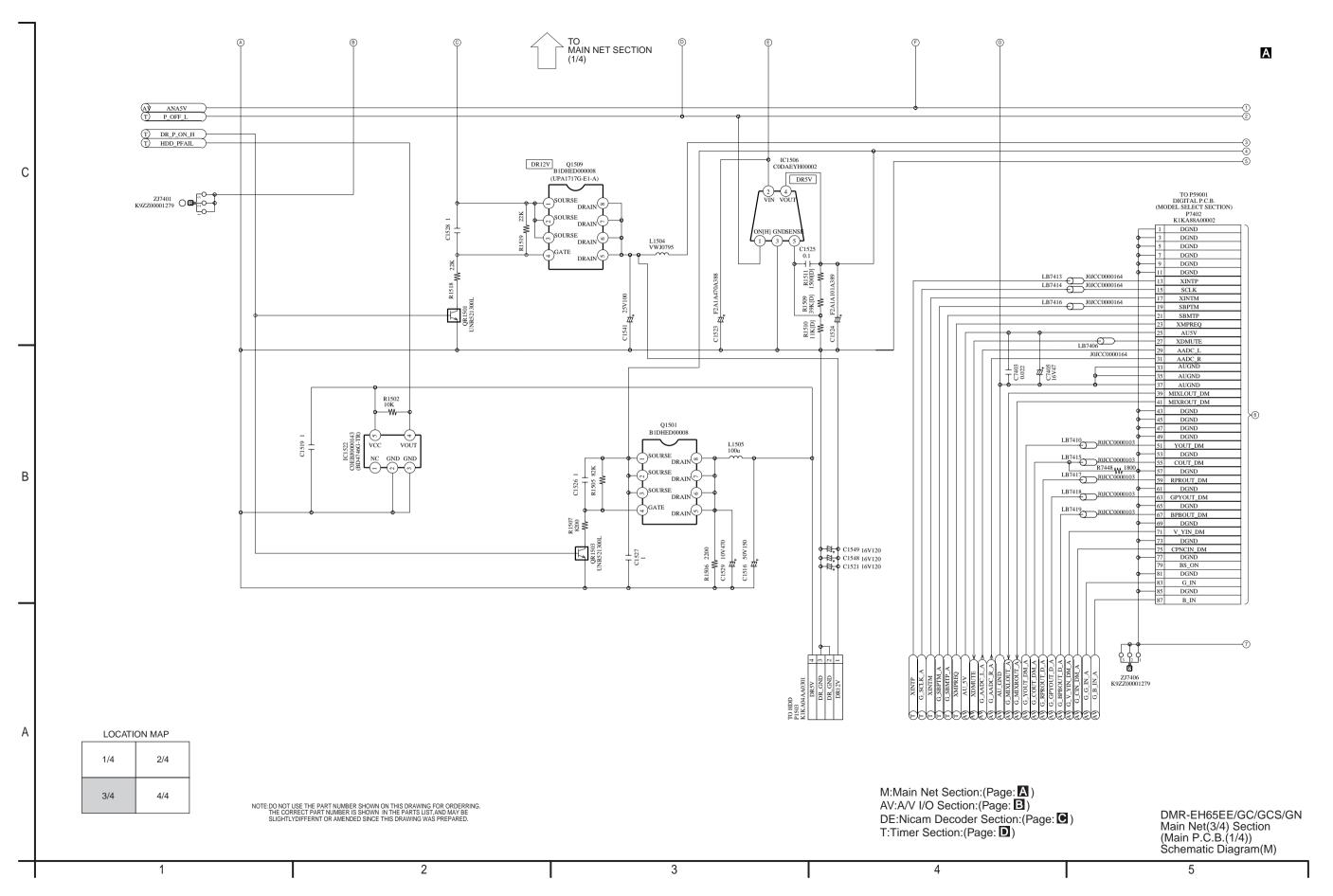
1/4	2/4
3/4	4/4

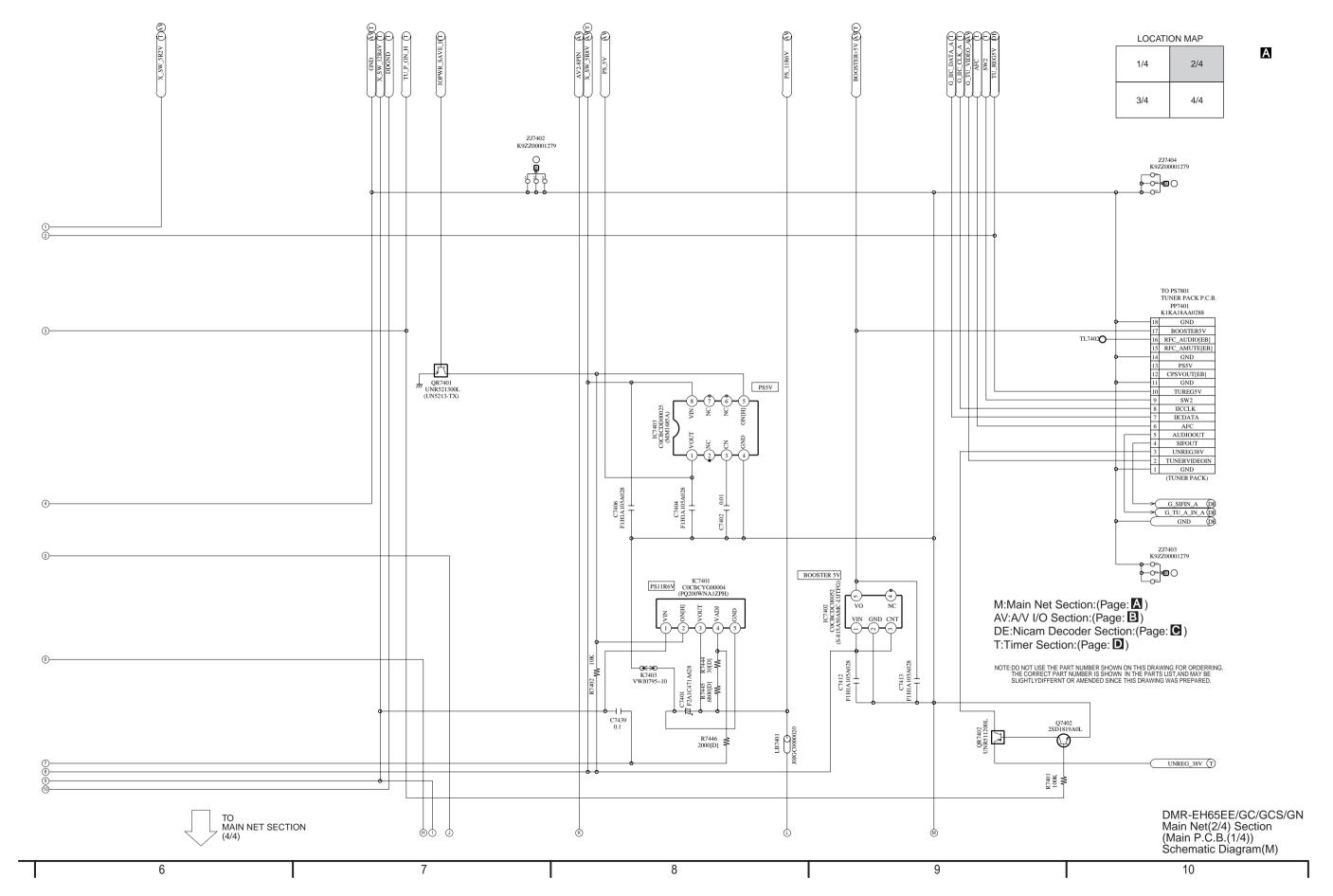
M:Main Net Section:(Page: ♠)
AV:A/V I/O Section:(Page: ♠)
DE:Nicam Decoder Section:(Page: ♠)
T:Timer Section:(Page: ♠)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH65EE/GC/GCS/GN Main Net(4/4) Section (Main P.C.B.(1/4)) Schematic Diagram(M)

6 7 8 9 10

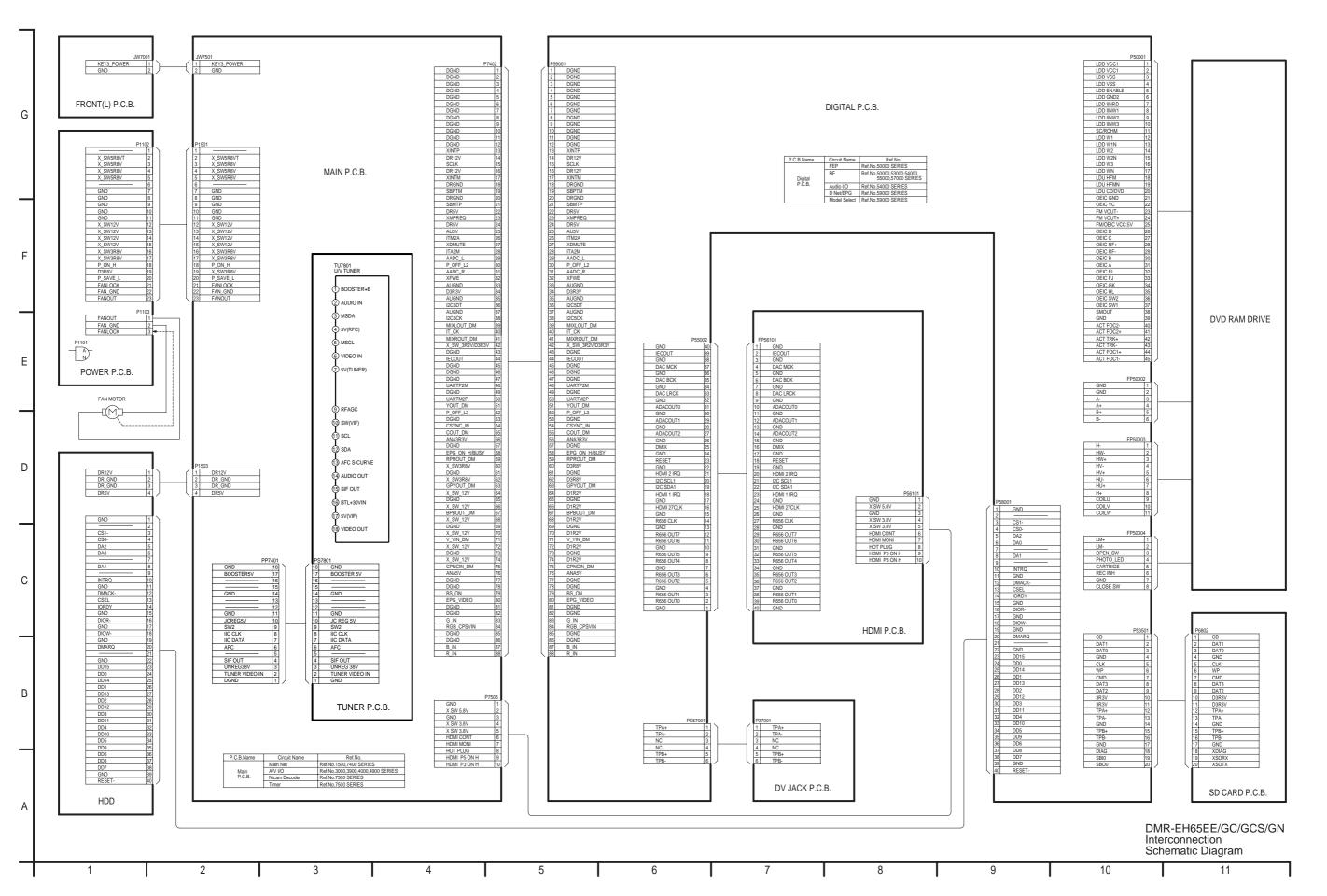




1/4 2/4 3/4 4/4	
(T) X_SW_3R8V (T) X_SW_3R3V (T) RESET_5R2V	TUREGSV) IC1510 CCCRECTG000006 (PG050DNA1ZPH) NI A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M:Main Net Section:(Page:▲)	C1535 FIHIA105A028 C1536 FIHIA105A028 C1539 FIHIA105A028
M:Main Net Section:(Page: A) AV:A/V I/O Section:(Page: B) DE:Nicam Decoder Section:(Page: C) T:Timer Section:(Page: D)	X_SW3R3 PLOODECHOOL VO NC VO NC VIN GND CNT VIN GND CNT
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED. IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS ONLY THE SAME TYPE.	© C1520 FIHIA 105A028
T) FANOUT (T) FANLOCK (T) P_SAVE_L TO P1102 POWER P.C.B. P1501 K1KA19A00007 X_SW15RSV 1 1 X_SW5R8VT 2 1 X_SW5R8V 3 X_SW5R8V 4 X_SW5R8V 4 X_SW5R8V 5 X_SW5R8V 6 GND 7	1.00.000000000000000000000000000000000
GND 9 GND 10 GND 11 X, SW12V 12 X_SW12V 13 X_SW12V 14 X, SW12V 14 X, SW12V 15 X_SW388V 17 P, On, H 18 X_SW388V 17 P, On, H 18 X_SW388V 19 P, SAVE_L 20 FAN_GND 22 FAN_GND 22 FAN_OUT 23	DMR-EH65EE/GC/GCS/GN Main Net Section (Main P.C.B.(1/4)) Schematic Diagram(M)
1 2	(Main P.C.B.(174)) Schematic Diagram(M) 3 4 5

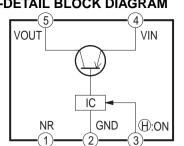
С

В

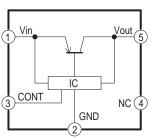


IC3001 **VIDEO/AUDIO PROCESSOR IC-DETAIL BLOCK DIAGRAM** 6MHz BPF CLAMP CLAMP/ BIAS 6MHz CLAMP 6MHz COMP 12MHz DAC Rch CLAMP DAC Lch OUTPUT SELECT SWITCH (SA4R) ADC Rch ADC Rch 79 AV2 Rch AV2 Lch (SA2R) BIAS -OAV4 ⊸TUN 37) AV3 V CLAMP AV3 Rch AV3 Lch MUTE AV2 Lch 3 OUTPUT SELECT SWITCH (SA4L) (SA3L) C-ADC OUT AV1 V AV3 Y AV3 C AV3 V AV4 V AV4 V AV4 V AV4 C AV2 RV TUNER V AV4 Rch ADC Lch ADC Lch 78 CLAMP AV4 Lch TUN Rch TUN Lch CLAMP AV2 B CLAMP MUTE VCA HIX AV2 V/Y

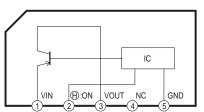
IC4011 AU +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



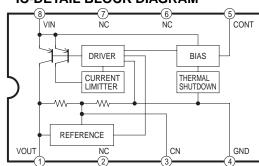
IC1505 XSW +3.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



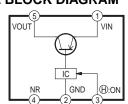
IC1510 TU +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



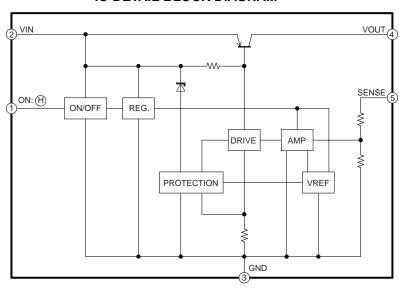
IC1521 ANA +3.3V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



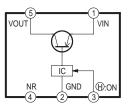
IC7402 BOOSTER +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



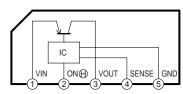
IC1506 DR +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



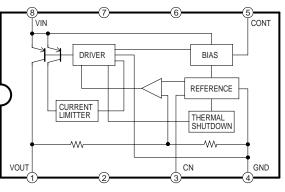
IC1520 ANA +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



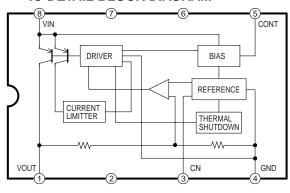
IC7401 PS +11.6V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM



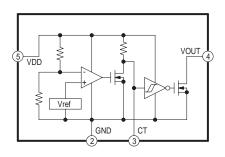
IC7403 PS +5V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

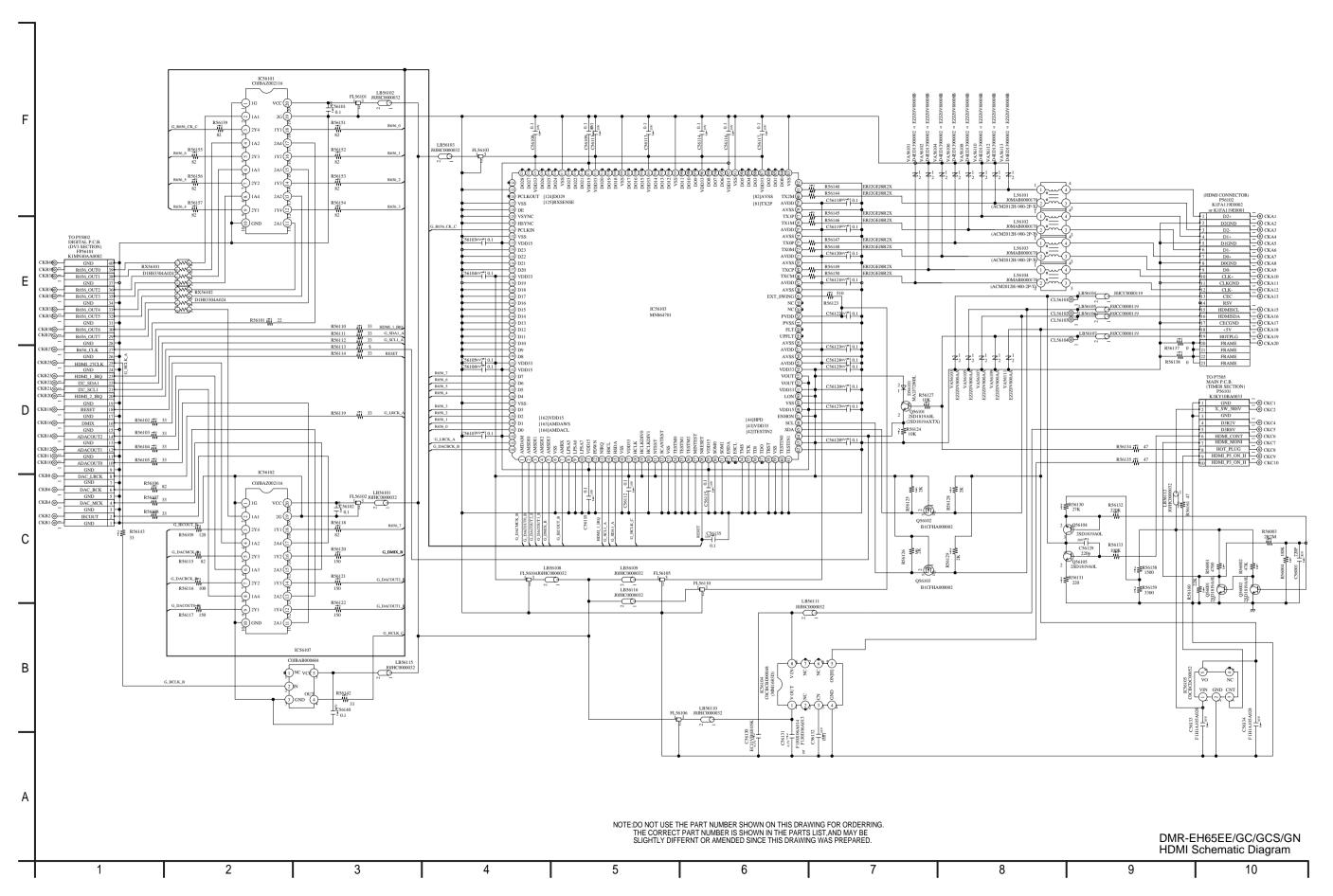


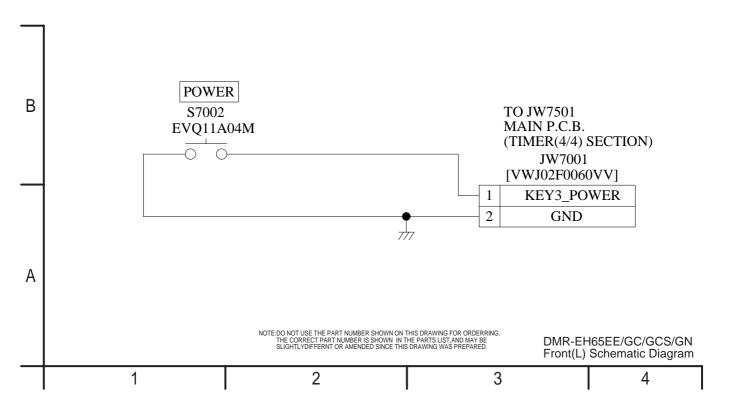
IC1507 XSW +5.2V SWITCHING REGULATOR IC-DETAIL BLOCK DIAGRAM

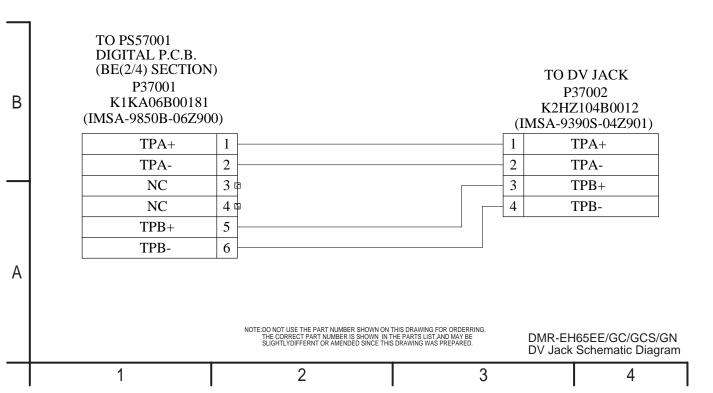


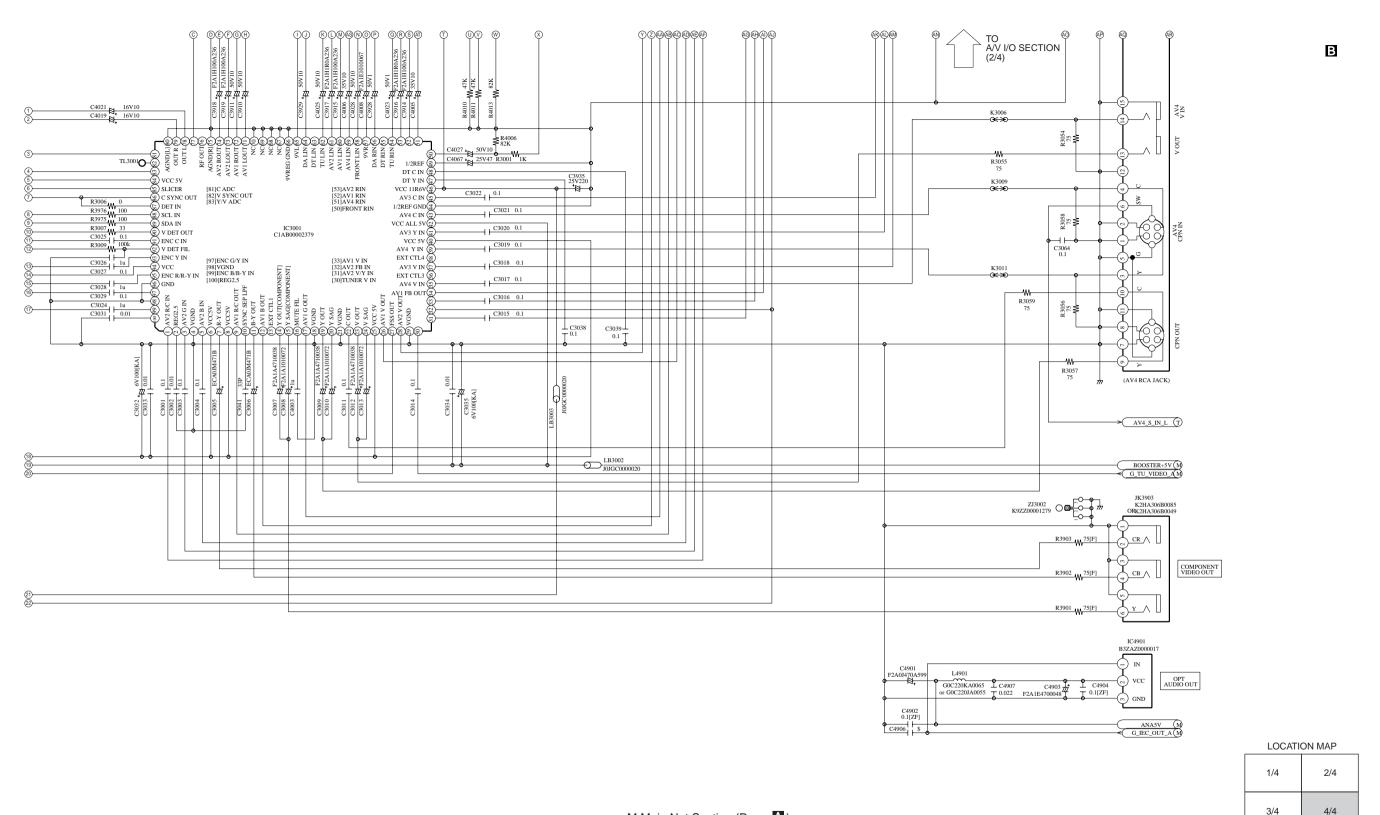
IC1522 RESET IC-DETAIL BLOCK DIAGRAM









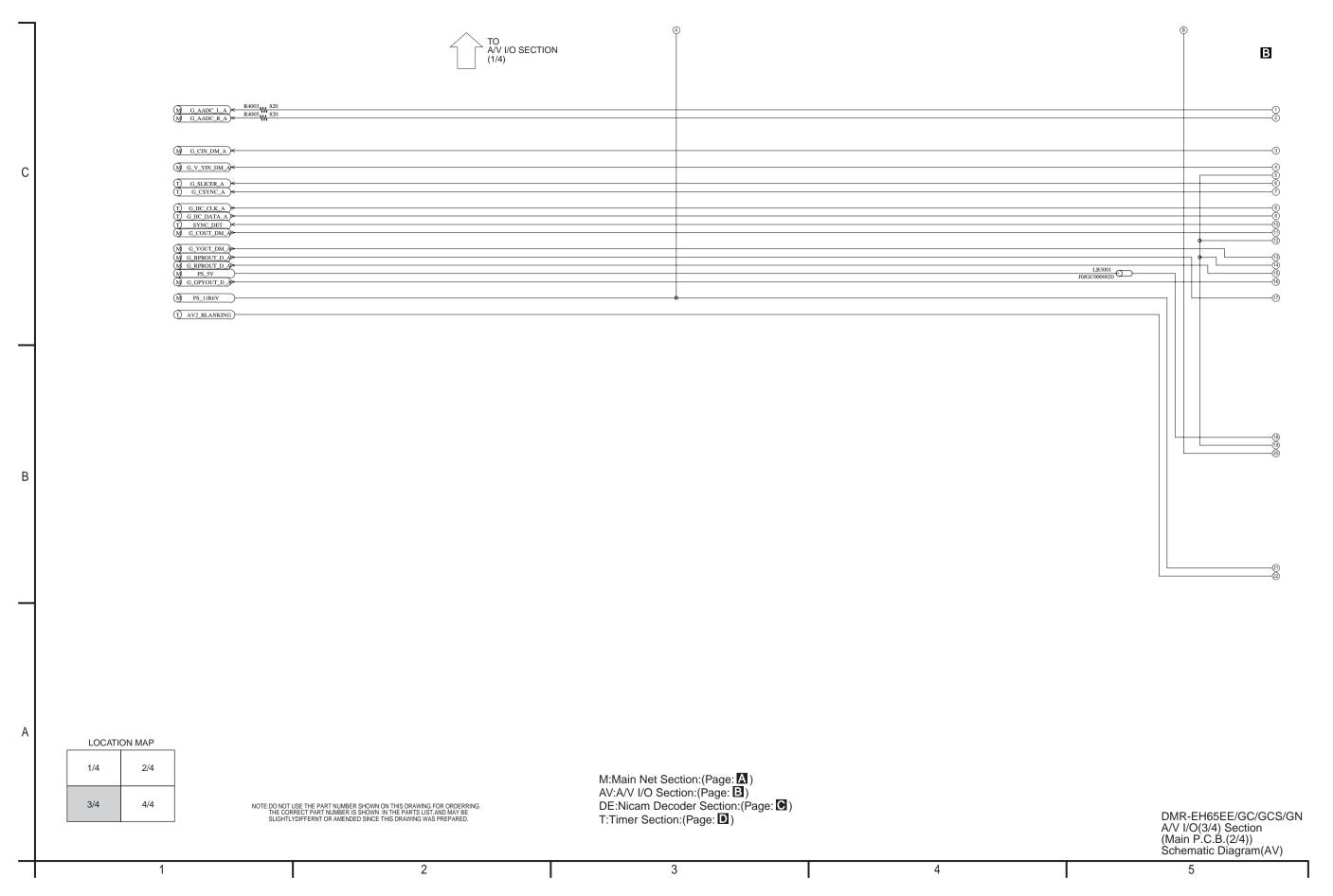


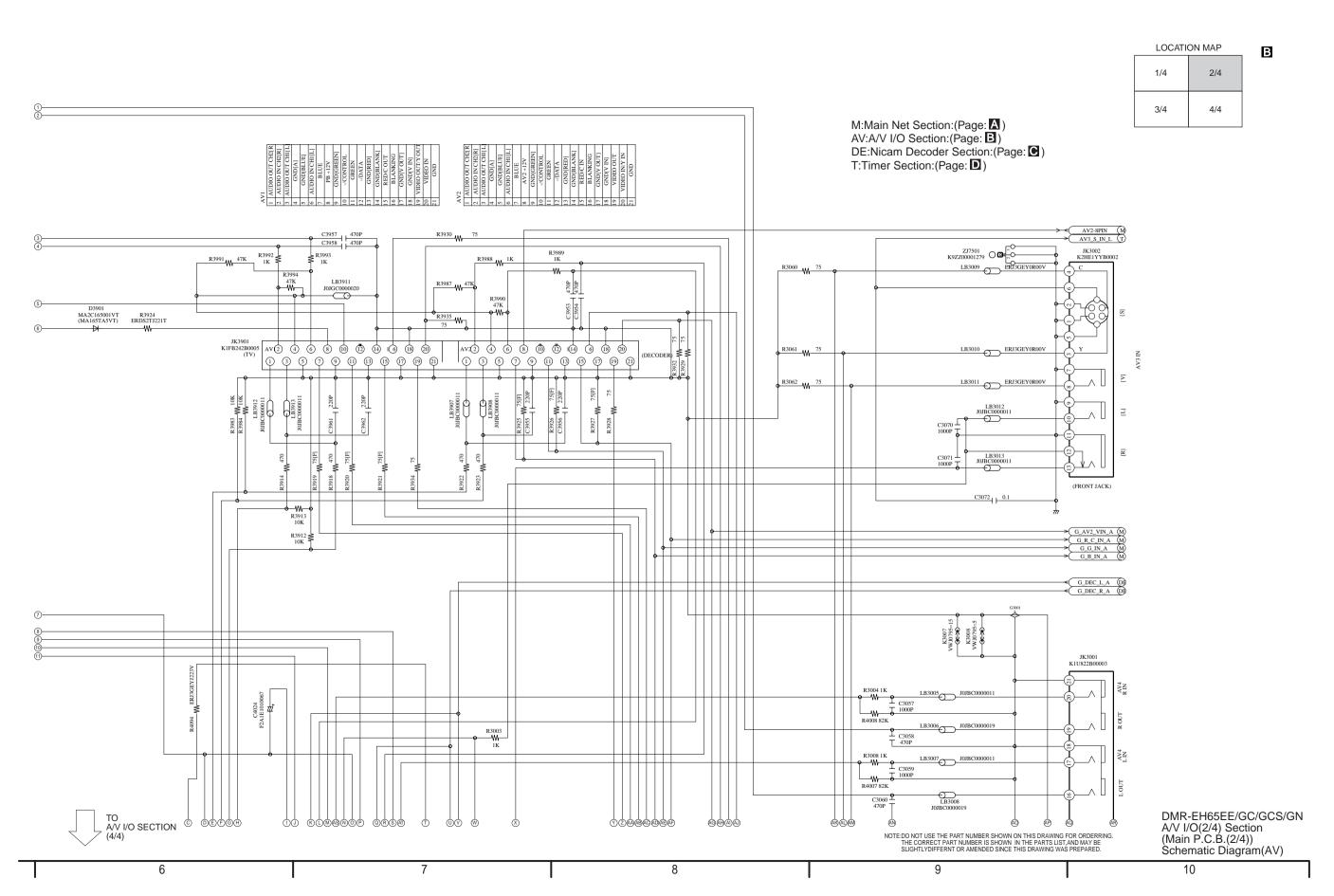
M:Main Net Section:(Page: A)
AV:A/V I/O Section:(Page: B)
DE:Nicam Decoder Section:(Page: C)
T:Timer Section:(Page: D)

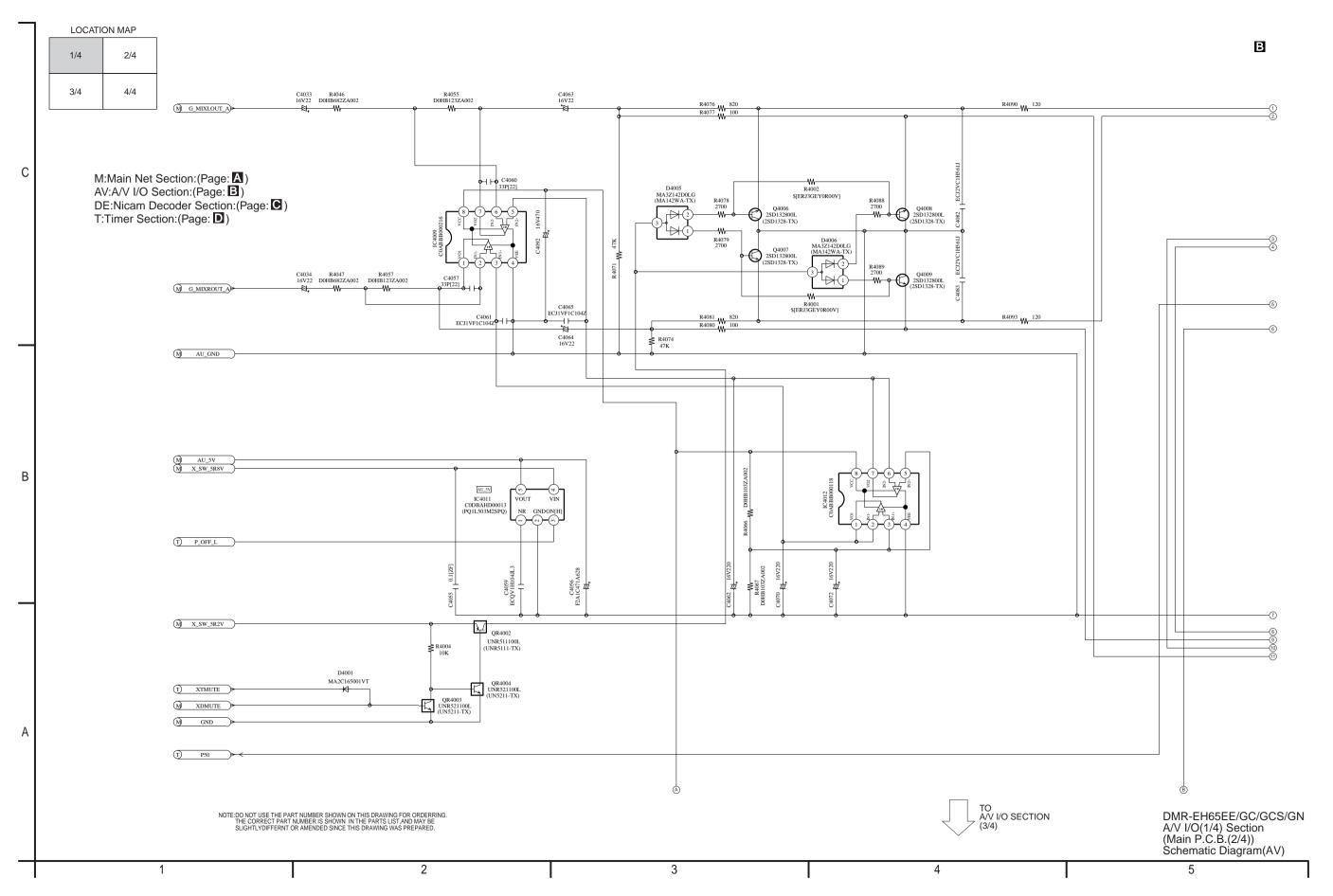
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH65EE/GC/GCS/GN A/V I/O(4/4) Section (Main P.C.B.(2/4)) Schematic Diagram(AV)

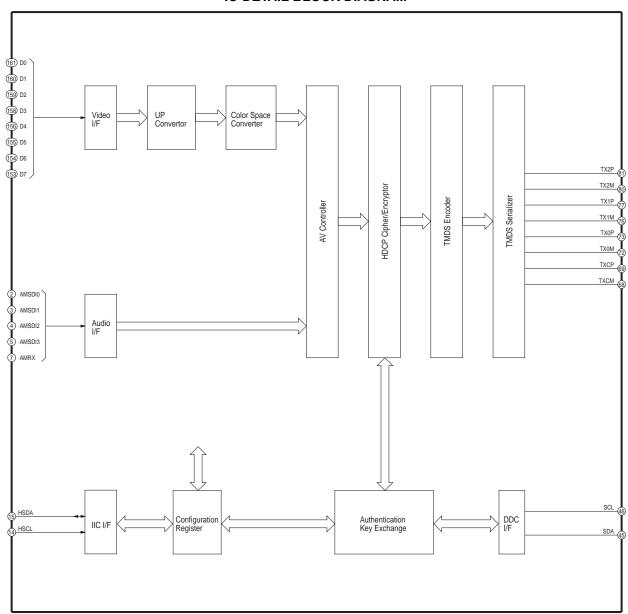
6 7 8 9 10



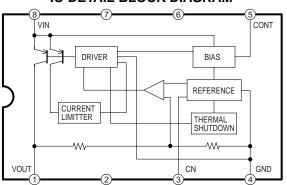




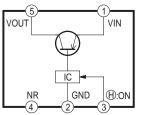
IC56103 HDMI TRANSMITTER IC-DETAIL BLOCK DIAGRAM



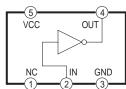
IC56104 +3.3V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM

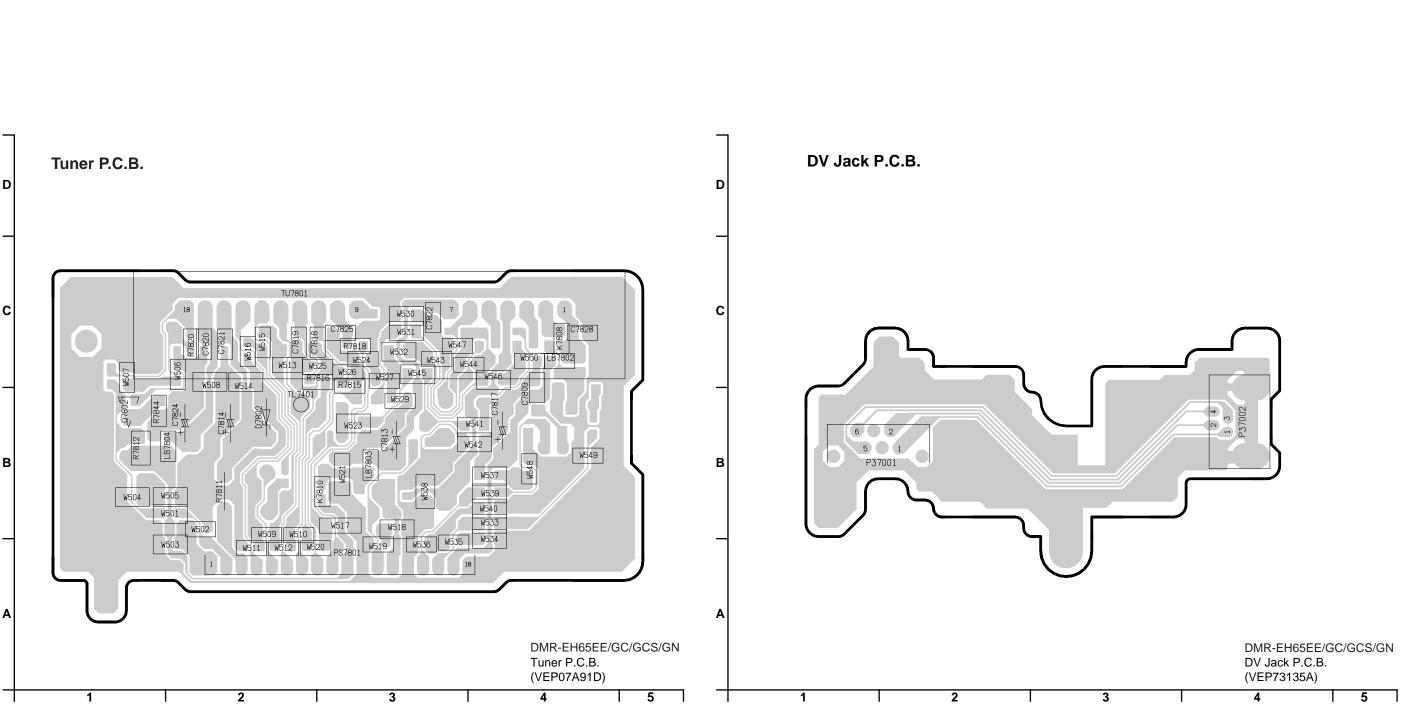


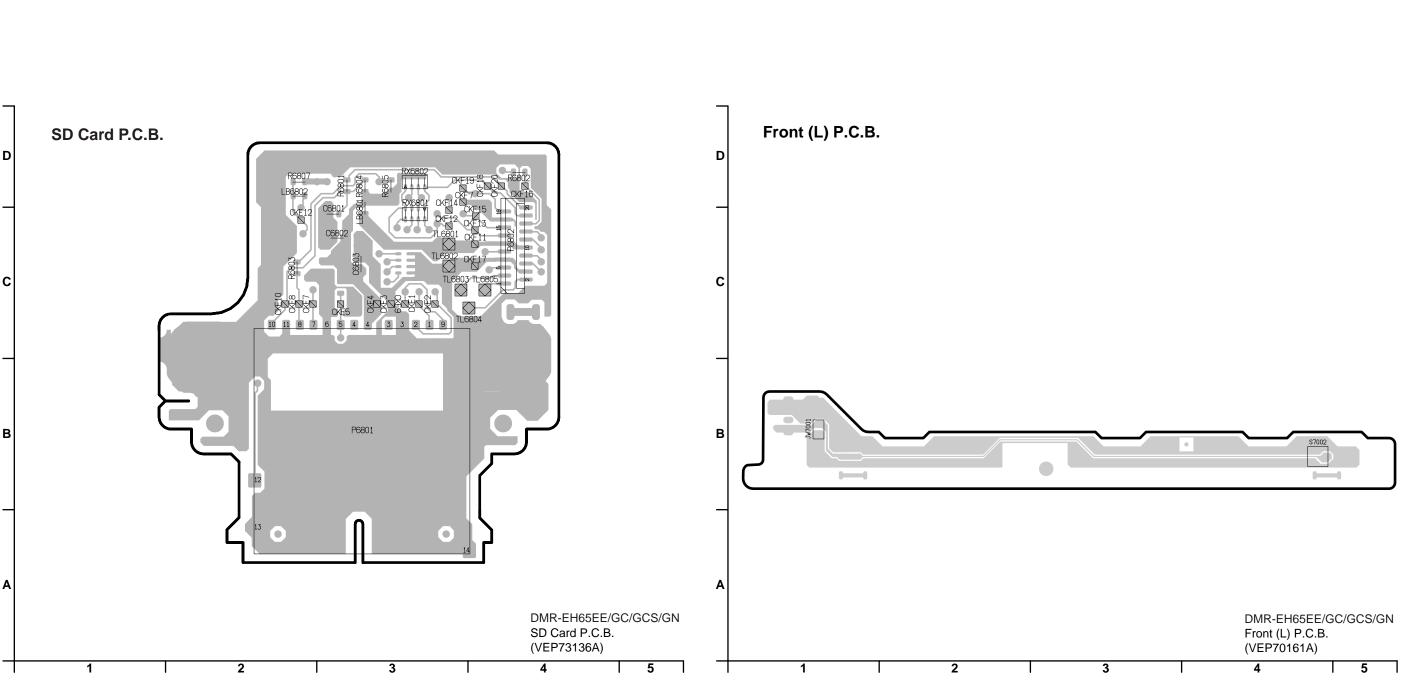
IC56105 +5V SWITCHING REG. IC-DETAIL BLOCK DIAGRAM

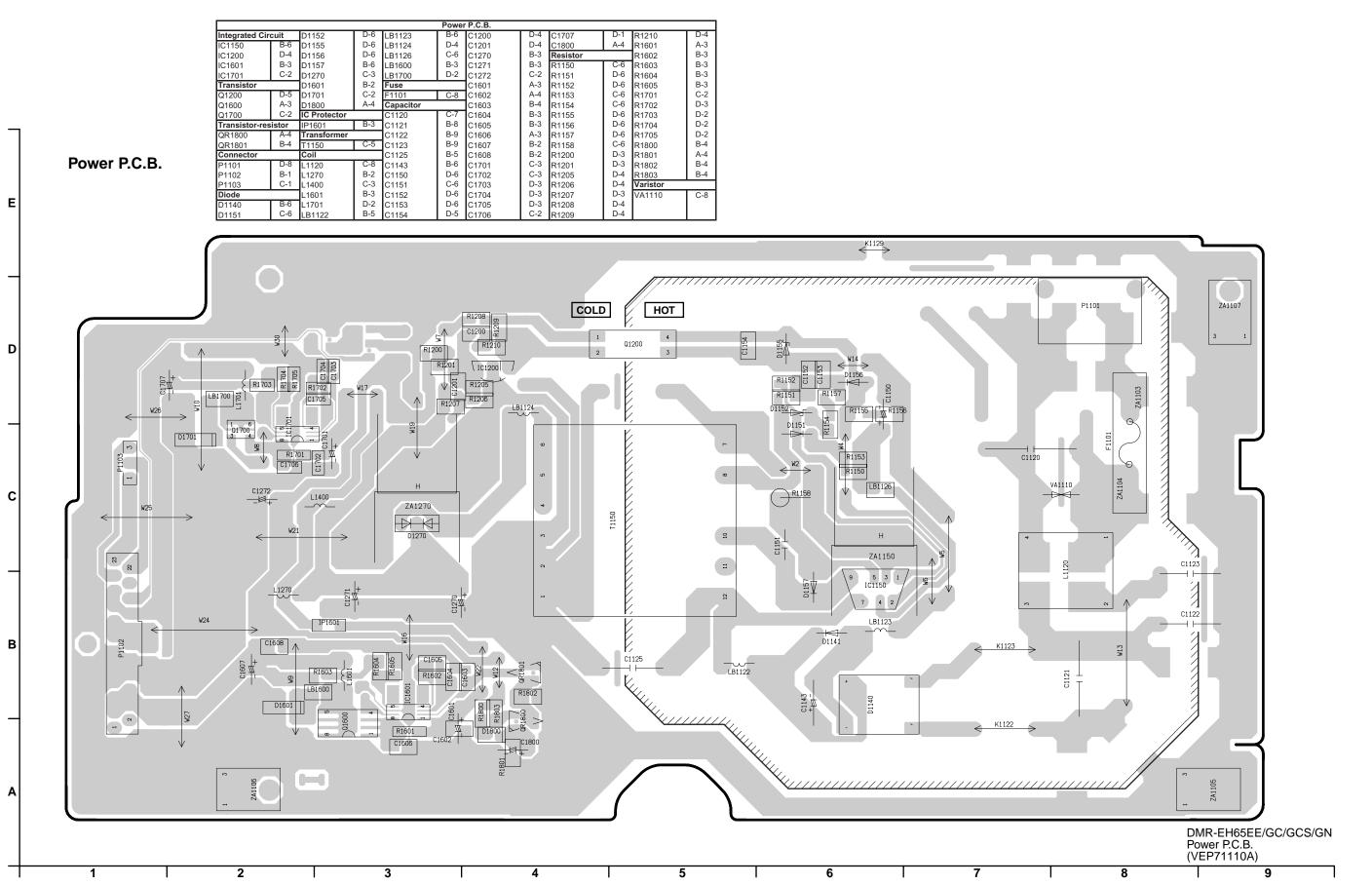


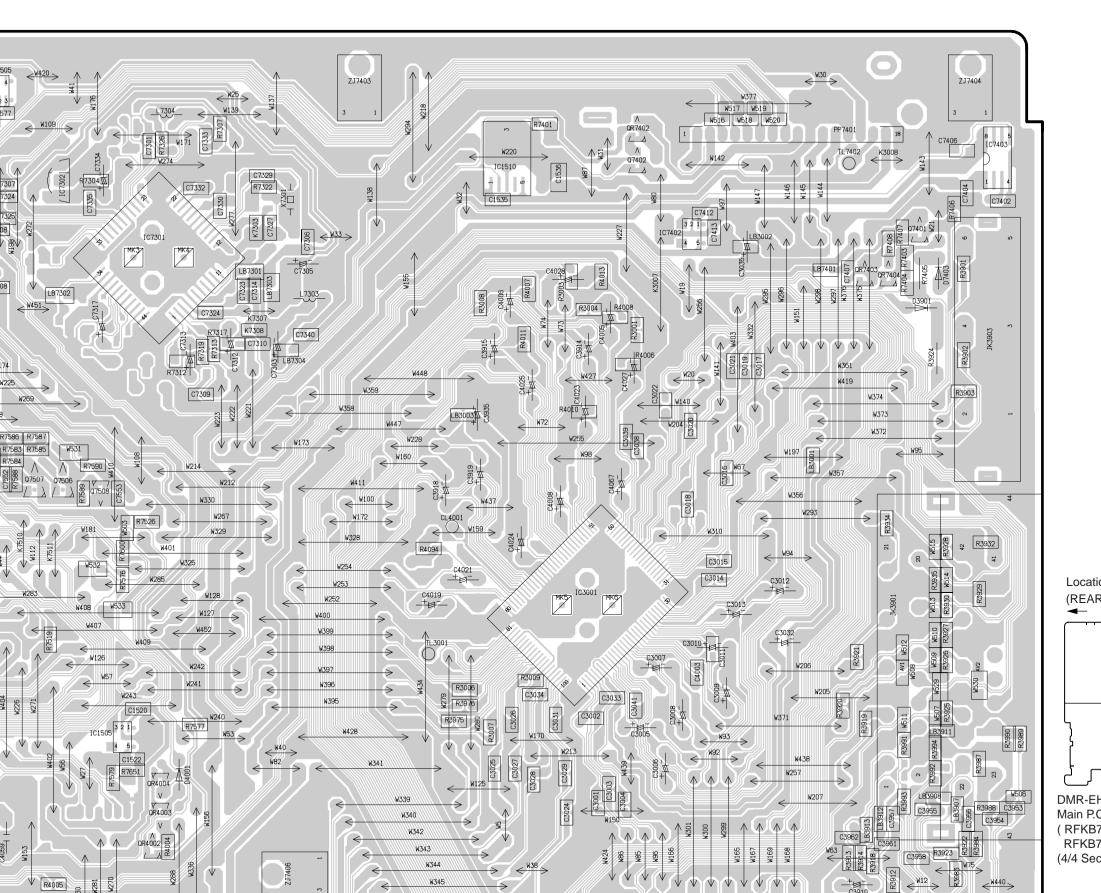
IC56107 INVERTER IC-DETAIL BLOCK DIAGRAM

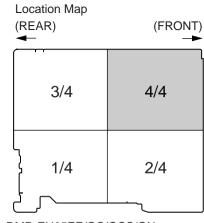




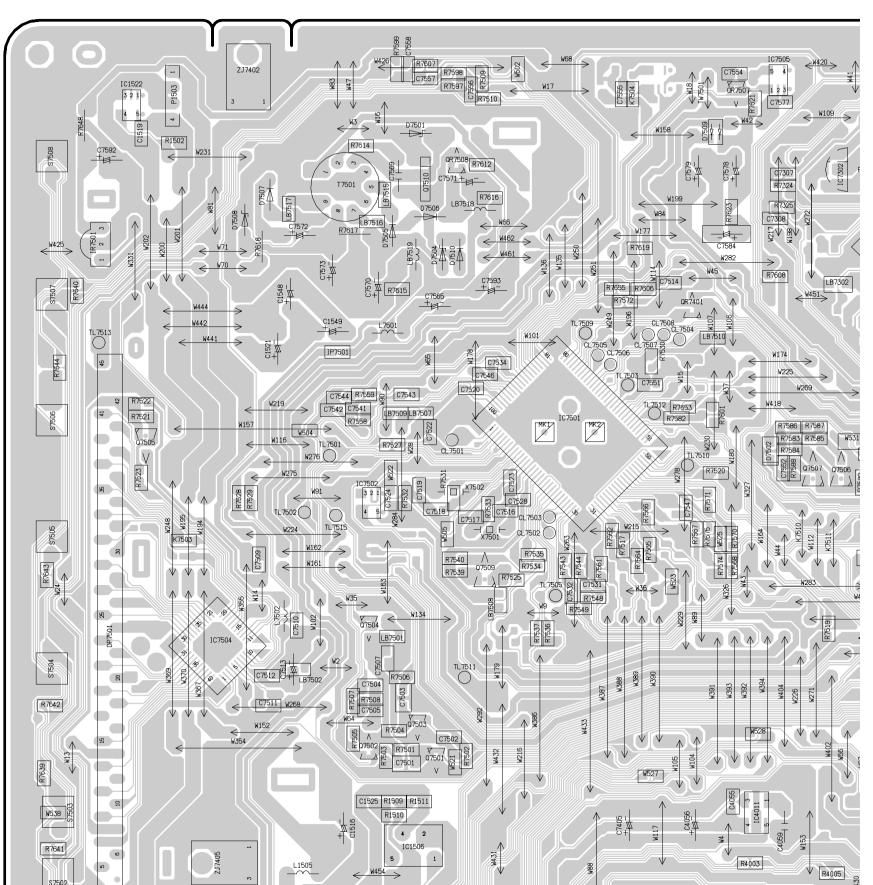


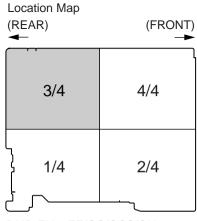




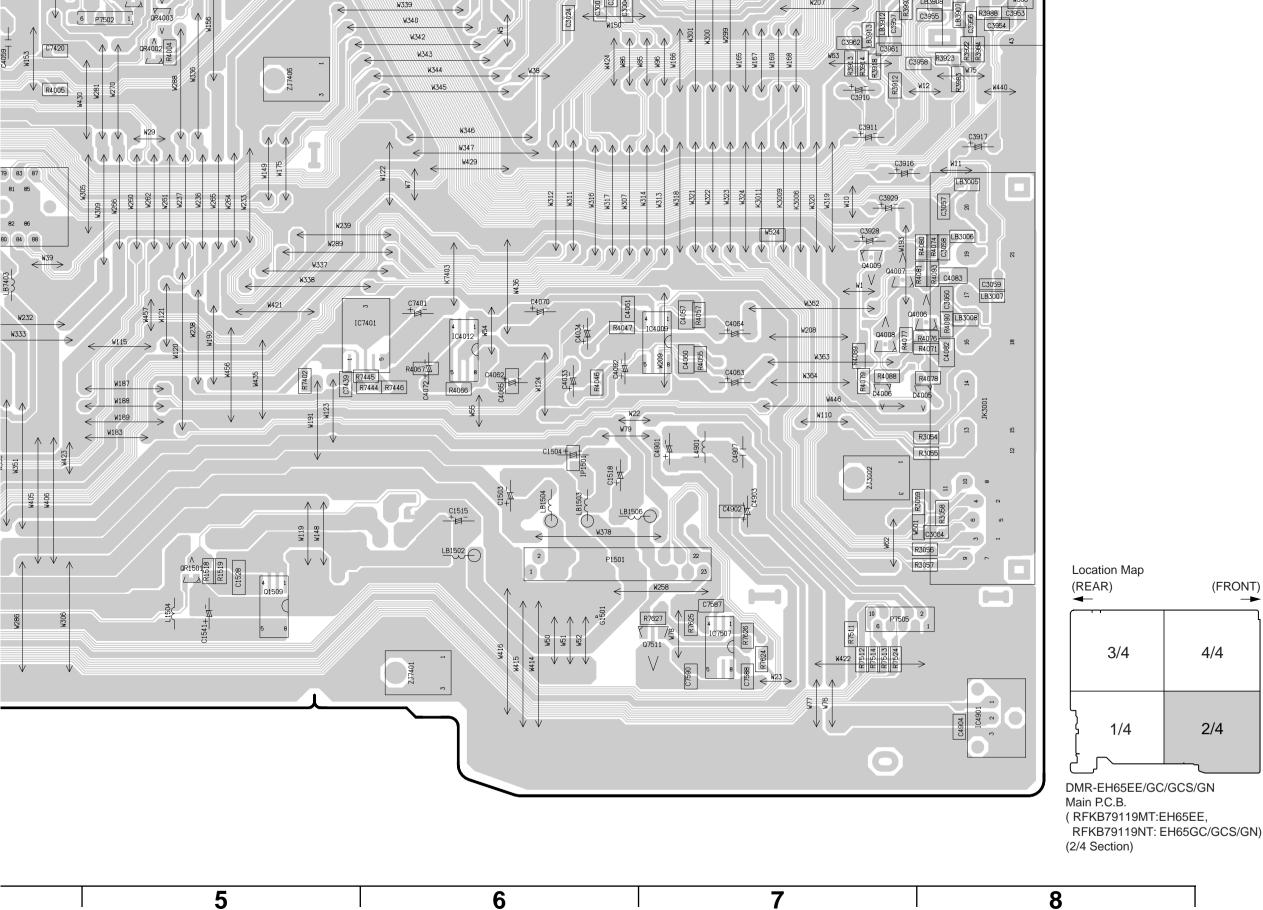


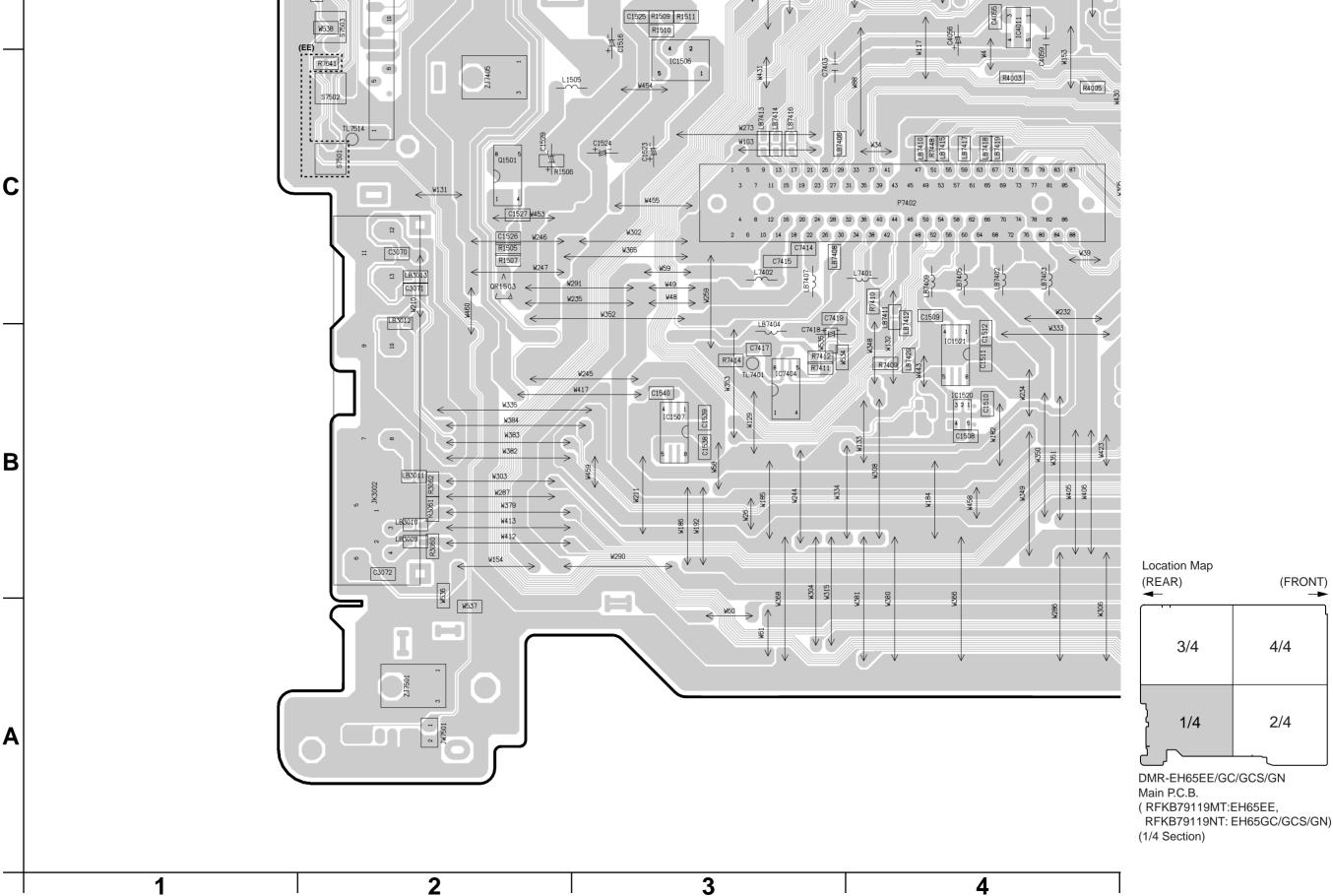
DMR-EH65EE/GC/GCS/GN Main P.C.B. (RFKB79119MT:EH65EE, RFKB79119NT: EH65GC/GCS/GN) (4/4 Section)





DMR-EH65EE/GC/GCS/GN Main P.C.B. (RFKB79119MT:EH65EE, RFKB79119NT: EH65GC/GCS/GN) (3/4 Section)





Main P.C.B.																			
Integrated Circ		CL7507	E-4	LB3001		C1520	D-5	C3914	E-6	C7324	E-5	C7571	F-3	R3987	D-8	R7502	D-3	R7590	E-5
IC1505	D-5	CL7508	E-4	LB3002	F-7	C1521	E-2	C3915	E-6	C7329	F-5	C7572	F-2	R3988	D-8	R7503	D-3	R7597	F-3
IC1506	C-3	TL3001	D-6	LB3003	E-6	C1522	D-5	C3916	C-7	C7330	F-5	C7573	F-3	R3989	D-8	R7504	D-3	R7598	F-3
IC1507	B-3	TL7401	B-3	LB3005	C-8	C1523	C-3	C3917	C-8	C7332	F-5	C7577	F-4	R3990	D-8	R7505	D-3	R7599	F-3
IC1510	F-6	TL7402	F-7	LB3006	C-8	C1524	C-3	C3918	E-6	C7333	F-5	C7578	F-4	R3991	D-7	R7506	D-3	R7600	E-5
IC1520	B-4	TL7501	E-3	LB3007	C-8	C1525	D-3	C3919	E-6	C7334	F-5	C7579	F-4	R3992	D-8	R7507	D-3	R7601	E-4
IC1521	B-4	TL7502	E-2	LB3008	C-8	C1526	C-2	C3928	C-7	C7335	F-5	C7584	F-4	R3993	D-7	R7508	D-3	R7606	E-4
IC1522	F-2	TL7503	E-4	LB3009	B-2	C1527	C-2	C3929	C-7	C7340	E-5	C7587	B-7	R3994	D-8	R7509	F-3	R7607	F-3
IC3001	D-6	TL7505	D-3	LB3010	B-2	C1528	B-5	C3935	E-6	C7401	C-6	C7588	A-7	R4003	C-4	R7510	F-3	R7608	F-4
IC4009	B-7	TL7509	E-4	LB3011	B-2	C1529	C-2	C3953	D-8	C7402	F-8	C7590	A-7	R4004	C-5	R7511	A-7	R7612	F-3
IC4011	D-4	TL7510	E-4	LB3012	B-2	C1535	F-6	C3954	D-8	C7403	C-3	C7592	F-2	R4005	C-4	R7512	A-7	R7614	F-3
IC4012	B-6	TL7511	D-3	LB3013	C-2	C1536	F-6	C3955	D-8	C7404	F-8	C7593	F-3	R4006	E-6	R7513	A-7	R7615	E-3
IC4901	A-8	TL7512	E-4	LB3907	D-8	C1538	B-3	C3956	D-8	C7405	D-4	Resistor		R4007	E-6	R7514	A-7	R7616	F-3
IC7301	F-5	TL7513	E-2	LB3908	D-8	C1539	B-3	C3957	D-7	C7406	F-8	R1502	F-2	R4008	E-6	R7517	E-4	R7617	F-3
IC7302	F-4	TL7514	C-2	LB3911	D-8	C1540	B-3	C3958	C-8	C7407	F-7	R1505	C-2	R4010	E-6	R7519	D-4	R7618	F-2
IC7401	B-6	TL7515	E-3	LB3912	D-7	C1541	B-5	C3961	D-7	C7412	F-7	R1506	C-2	R4011	E-6	R7520	E-4	R7619	F-4
IC7402	F-7	TW7501	F-4	LB3913	D-7	C1548	E-2	C3962	D-7	C7413	F-7	R1507	C-2	R4013	F-6	R7521	E-2	R7621	F-4
IC7403	F-8	Connector		LB7301	F-5	C1549	E-3	C4003	D-7	C7414	C-3	R1509	D-3	R4046	B-6	R7522	E-2	R7623	F-4
IC7404	B-3	JK3001	B-8	LB7302	E-4	C3001	D-6	C4005	E-6	C7415	C-3	R1510	D-3	R4047	C-6	R7523	E-2	R7624	A-7
IC7501	E-3	JK3002	B-2	LB7303	F-5	C3002	D-6	C4006	F-6	C7417	B-3	R1511	D-3	R4055	B-7	R7524	A-7	R7625	A-7
IC7502	E-3	JK3901	D-8	LB7304	E-5	C3003	D-6	C4008	E-6	C7418	B-3	R1518	B-5	R4057	C-7	R7525	D-3	R7626	A-7
IC7504	D-2	JK3903	E-8	LB7401	F-7	C3004	D-6	C4019	D-6	C7419	C-3	R1519	B-5	R4066	B-6	R7526	E-5	R7627	A-7
IC7505	F-4	P1501	B-6	LB7402	C-4	C3005	D-6	C4021	D-6	C7439	B-5	R3001	E-7	R4067	B-6	R7527	E-3	R7639	D-2
IC7507	A-7	P1503	F-2	LB7403	C-4	C3006	D-7	C4023	E-6	C7501	D-3	R3003	F-6	R4071	B-8	R7528	E-2	R7640	E-2
Transistor		P7402	C-4	LB7404	C-3	C3007	D-7	C4024	E-6	C7502	D-3	R3004	E-6	R4074	C-8	R7529	E-2	R7641	C-2
Q1501	C-2	P7505	A-7	LB7405	C-4	C3008	D-7	C4025	E-6	C7503	D-3	R3006	D-6	R4076	B-8	R7530	E-4	R7642	D-2
Q1509		PP7401	F-7	LB7406	C-3	C3009	D-7	C4027	E-6	C7504	D-3	R3007	D-6	R4077	B-7	R7531	E-3	R7643	D-2
Q4006		Diode		LB7407	C-3	C3010	D-7	C4028	F-6	C7505	D-3	R3008	E-6	R4078	B-8	R7532	E-3	R7644	E-2
Q4007	C-7	D3901	E-8	LB7408	C-3	C3011	D-7	C4033	B-6	C7507	D-3	R3009	D-6	R4079	B-7	R7533	E-3	R7648	F-2
Q4008		D4001	D-5	LB7409	C-4	C3012	D-7	C4034	C-6	C7509	D-2	R3054	B-8	R4080	C-8	R7534	D-3	R7651	D-5
Q4009	C-7	D4005	B-8	LB7410	C-4	C3013	D-7	C4055	D-4	C7510	D-2	R3055	B-8	R4081	C-8	R7535	E-3	R7653	E-4
Q7401	F-8	D4006	B-7	LB7411	C-4	C3014	D-7	C4056	D-4	C7511	D-2	R3056	B-8	R4088	B-7	R7536	D-3	R7655	E-4
Q7402		D7403	F-8	LB7412	B-4	C3015	E-7	C4057	C-7	C7512	D-2	R3057	B-8	R4089	B-7	R7537	D-3	Switch	
Q7501	D-3	D7501	F-3	LB7413	C-3	C3016	E-7	C4059	D-4	C7513	D-2	R3058	B-8	R4090	C-8	R7539	D-3	S7501	C-2
Q7502	D-3	D7502	E-4	LB7414	C-3	C3017	E-7	C4060	B-7	C7514	E-4	R3059	B-8	R4093	C-8	R7540	D-3	S7502	C-2
Q7503	D-3	D7504	F-3	LB7415	C-4	C3018	E-7	C4061	C-6	C7516	E-3	R3060	B-2	R4094	E-6	R7543	D-3	S7503	D-2
Q7504	D-3	D7505	F-3	LB7416	C-3	C3019	E-7	C4062	B-6	C7517	E-3	R3061	B-2	R7304	F-5	R7544	D-3	S7504	D-2
Q7505	E-2	D7506	F-3	LB7417	C-4	C3020	E-7	C4063	B-7	C7518	E-3	R3062	B-2	R7307	F-5	R7548	D-4	S7505	E-2
Q7506	E-4	D7507	F-2	LB7418	C-4	C3021	E-7	C4064	C-7	C7519	E-3	R3901	F-8	R7312	E-5	R7549	D-3	S7506	E-2
Q7507	E-4	D7508	F-2	LB7419	C-4	C3022	E-7	C4065	B-6	C7520	E-3	R3902	E-8	R7313	E-5	R7558	E-3	S7507	E-2
Q7508	E-5	D7509	F-4	LB7420	B-4	C3024	D-6	C4067	E-6	C7522	E-3	R3903	E-8	R7317	E-5	R7559	E-3	S7508	F-2
Q7509	D-3	D7510	F-3	LB7501	D-3	C3025	D-6	C4070	C-6	C7523	E-3	R3912	C-7	R7319	E-5	R7561	D-4	Transformer	
Q7510		Crystal Osillate	or	LB7502	D-2	C3026	D-6	C4072	B-6	C7524	E-3	R3913	C-7	R7322	F-5	R7562	E-4	T7501	F-3
Q7511	A-7	X7301	F-5	LB7507	E-3	C3027	D-6	C4082	B-8	C7528	E-3	R3914	C-7	R7324	F-4	R7564	D-4	Display	
Transistor-resi	stor	X7501	E-3	LB7508	D-3	C3028	D-6	C4083	C-8	C7531	D-4	R3918	C-7	R7325	F-4	R7565	E-4	DP7501	D-2
QR1501	B-5	X7502	E-3	LB7509	E-3	C3029	D-6	C4092	B-6	C7532	D-3	R3919	D-7	R7326	F-5	R7566	E-4		
QR1503		IC Protector		LB7510	E-4	C3031	D-6	C4901	B-7	C7534	E-3	R3920	D-7	R7401	F-6	R7567	E-4		
QR4002	C-5	IP1501	B-6	LB7515	F-3	C3032	D-7	C4902	B-7	C7541	E-3	R3921	D-7	R7402	B-5	R7568	D-4		
QR4003	D-5	IP7501	E-3	LB7516	F-3	C3033	D-6	C4903	B-7	C7542	E-3	R3922	D-8	R7403	F-7	R7570	E-4		
QR4004	D-5	IR7501	F-2	LB7517	F-2	C3034	D-6	C4904	A-8	C7543	E-3	R3923	C-8	R7404	F-7	R7571	E-4		
QR7401	E-4	Coil		LB7518	F-3	C3035	F-7	C4907	B-7	C7544	E-3	R3924	E-8	R7405	F-8	R7572	E-4		
QR7402	F-7	L1504	B-5	LB7519	F-3	C3038	E-7	C7301	F-5	C7546	E-3	R3925	D-8	R7406	F-8	R7574	D-4		
QR7403	F-7	L1505	C-2	Capacitor		C3039	E-6	C7303	E-5	C7547	E-4	R3926	D-8	R7407	F-7	R7575	E-4		
QR7404	F-7	L4901	B-7	C1503	B-6	C3041	D-6	C7305	F-5	C7551	E-4	R3927	D-8	R7408	F-7	R7576	D-5		
QR7507	F-4	L7303	E-5	C1504	B-6	C3057	C-8	C7306	F-5	C7552	E-4	R3928	E-8	R7409	B-4	R7577	D-5		
QR7508	F-3	L7304	F-5	C1508	B-4	C3058	C-8	C7307	F-4	C7553	E-5	R3929	D-8	R7410	C-4	R7579	D-5		
Test Point		L7401	C-4	C1509	C-4	C3059	C-8	C7308	F-4	C7554	F-4	R3930	D-8	R7411	B-3	R7582	E-4		
CL4001	E-6	L7402	C-3	C1510	B-4	C3060	C-8	C7309	E-5	C7555	F-4	R3932	E-8	R7412	B-3	R7583	E-4		
CL7501	E-3	L7501	E-3	C1511	B-4	C3064	B-8	C7310	E-5	C7556	F-3	R3934	E-7	R7414	B-3	R7584	E-4		
CL7502		L7502	D-2	C1512	B-4	C3070	C-2	C7312	E-5	C7557	F-3	R3935	D-8	R7444	B-6	R7585	E-4		
CL7503	E-3	LB1502	B-6	C1515	B-6	C3071	C-2	C7313	E-5	C7558	F-3	R3975	D-6	R7445	B-6	R7586	E-4		
CL7504	E-4	LB1503	B-6	C1516	D-3	C3072	B-2	C7314	E-5	C7565	E-3	R3976	D-6	R7446	B-6	R7587	E-4		
CL7505	E-4	LB1504	-	C1518	B-6	C3910	C-7	C7317	E-5	C7569	F-3	R3983	C-8	R7448	C-4	R7588	E-4		
CL7506		LB1506		C1519		C3911		C7323	E-5	C7570	F-3	R3984	D-8	R7501	D-3	R7589	E-4		

